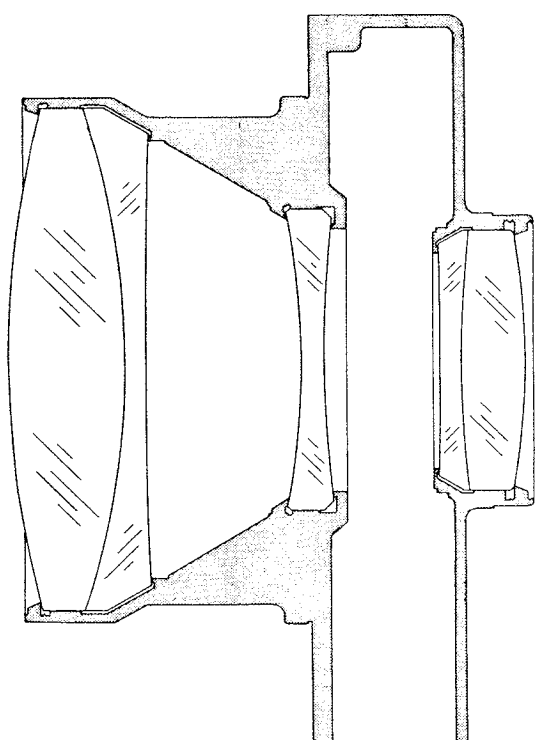


LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance			NAME		
FOCAL LENGTH 36 in.		RELATIVE APERTURE f/10.0		FORMAT 18 in. x 18 in.	
				MANUFACTURER Perkin-Elmer Corp.	
STOCK NO.		SPECIFICATION NO.		STATUS	
GENERAL DESCRIPTION 					
CHARACTERISTICS					
EQUIVALENT FOCAL LENGTH 36 in. (914.4 mm)			TRANSMITTANCE		
BACK FOCAL DISTANCE 32 in.			COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE			DISTORTION (Maximum)		
FLANGE FOCAL DISTANCE 37 in.			LENS CELL DIAMETER (Maximum) 11 in.		
SEMI-FIELD ANGLE 19°			OVERALL LENGTH 8.25 in.		
RELATIVE APERTURE f/10.0			WEIGHT 24.5 lb		
REMARKS:					

[illegible]

AVERAGE
RADIAL AND
TANGENTIAL

FILM _____ TARGET CONTRAST High FILTER _____

AWAR

_____ L/mm

AVERAGE
RADIAL AND
TANGENTIAL

FILM _____ TARGET CONTRAST _____ FILTER _____

AWAR
_____ L/mm

AVERAGE
RADIAL AND
TANGENTIAL

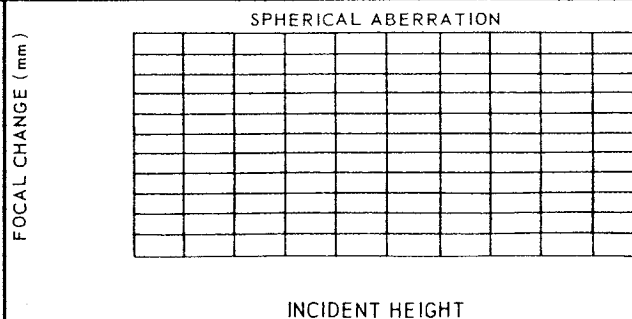
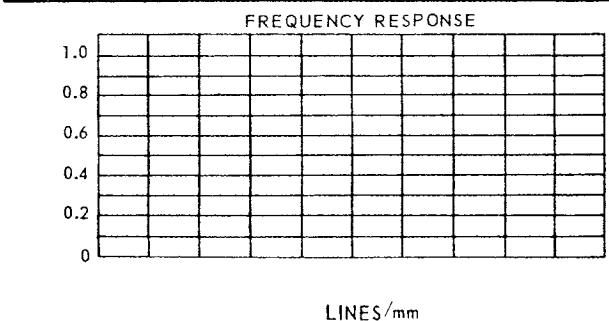
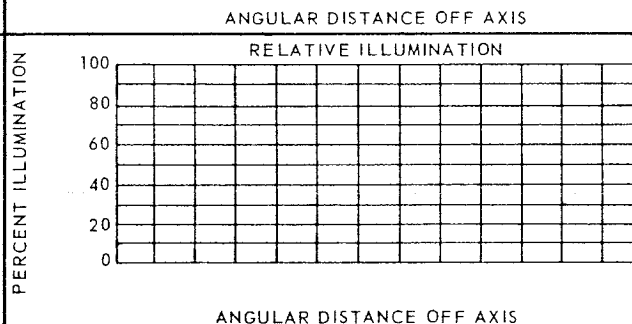
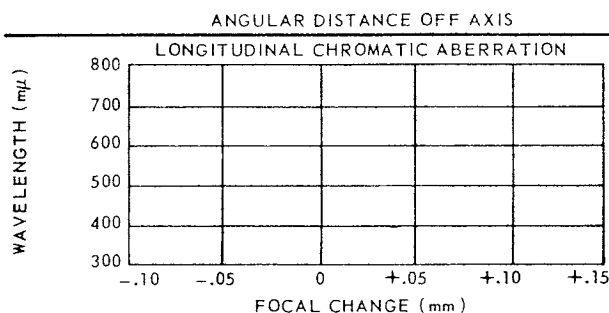
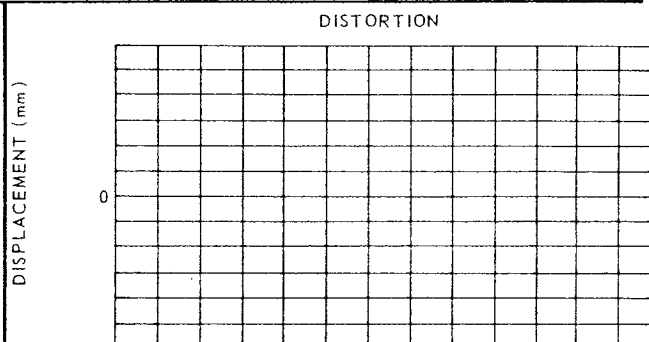
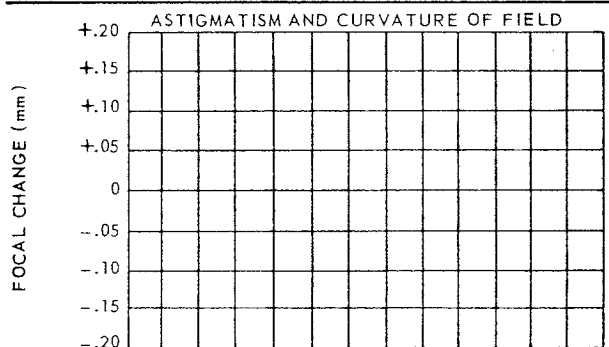
FILM _____ TARGET CONTRAST _____ FILTER _____

AWAR

_____ L/mm

RADIAL
TANGENTIAL

VISUAL _____ TARGET CONTRAST _____ FILTER _____



LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME		
FOCAL LENGTH 48 in.	RELATIVE APERTURE f/8.0	FORMAT 18.5 in. Pan	MANUFACTURER Perkin-Elmer Corp.	
STOCK NO.		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 48 in. (1219.2 mm)		TRANSMITTANCE		
BACK FOCAL DISTANCE 40.831 in.		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE		DISTORTION (Maximum)		
FLANGE FOCAL DISTANCE 49.831 in.		LENS CELL DIAMETER (Maximum) 12 in.		
SEMI-FIELD ANGLE 10° 45'		OVERALL LENGTH 16 in.		
RELATIVE APERTURE f/8.0		WEIGHT 110 lbs (Camera 1520 lbs)		
REMARKS: Used on the following aircraft cameras: E-1 Transverse Panoramic				

FIELD
ANGLE (°)[illegible]

RADIAL
TANGENTIAL

[illegible]

AWAR
30 L/mm

RADIAL
TANGENTIAL

[illegible]

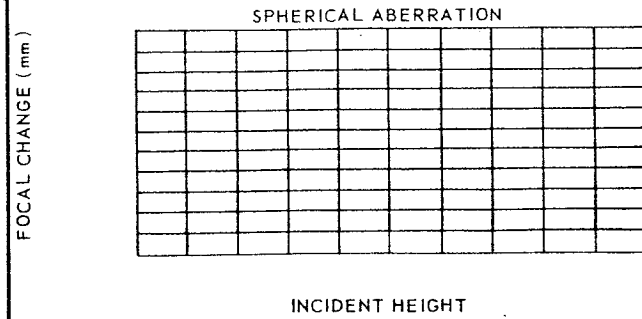
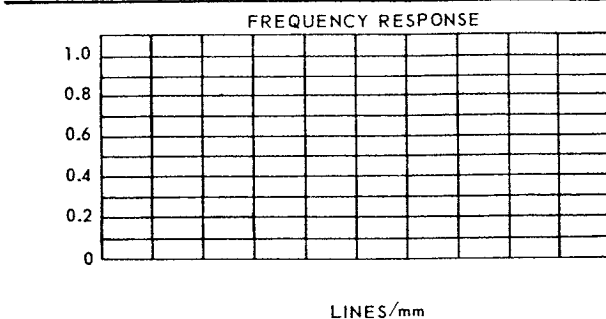
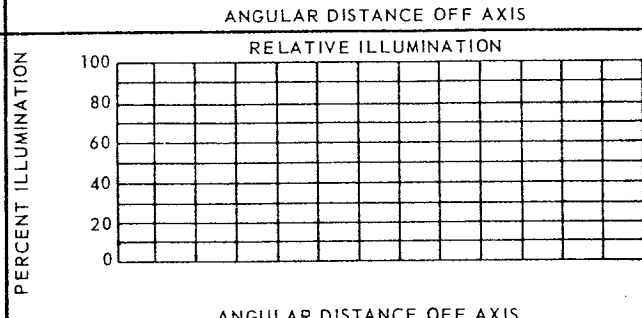
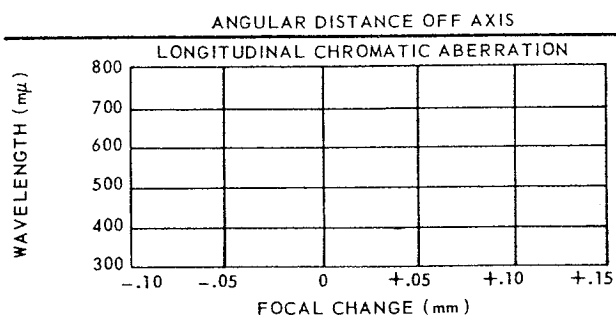
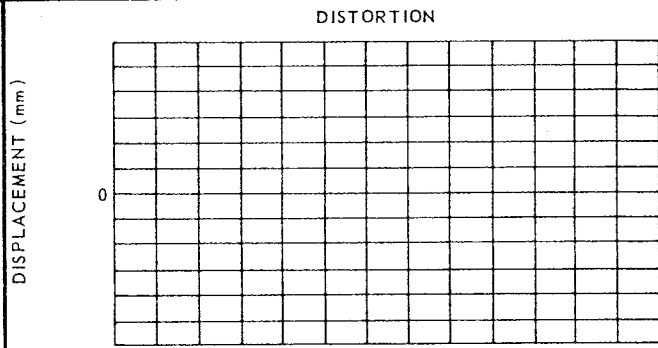
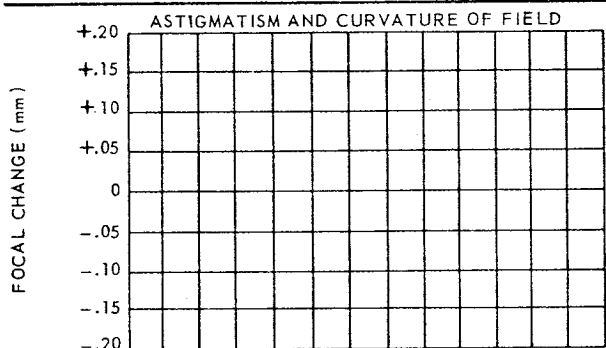
AWAR
_____ L/mm

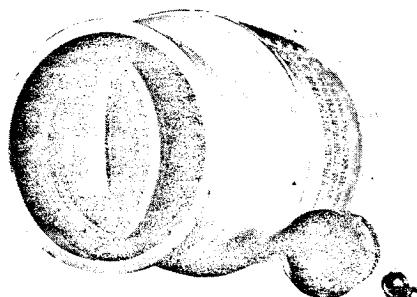
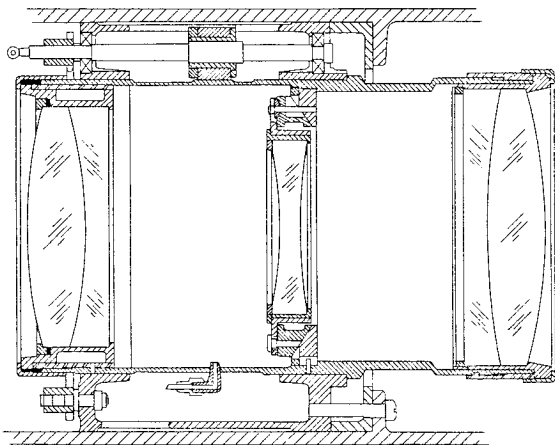
RADIAL
TANGENTIAL

[illegible]

AWAR
_____ L/mm

RADIAL
TANGENTIAL

[illegible]

LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Pentac Type		
FOCAL LENGTH 96 in.	RELATIVE APERTURE f/8.0	FORMAT 18 in. x 36 in.	MANUFACTURER Perkin-Elmer Corp.	
STOCK NO.		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION   				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 96 in. (2438.4 mm)		TRANSMITTANCE 75%		
BACK FOCAL DISTANCE 82 in.		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE		DISTORTION (Maximum)		
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (Maximum) 25.25 in.		
SEMI-FIELD ANGLE 11.5°		OVERALL LENGTH 35 in.		
RELATIVE APERTURE f/8.0		WEIGHT		
REMARKS:				

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
96 in.	f/8.0	18 in. x 36 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD
ANGLE (°)[illegible]

AVERAGE
RADIAL AND
TANGENTIAL

[illegible]

AWAR
23 L/mm

AVERAGE
RADIAL AND
TANGENTIAL

FILM							V N	TARGET CONTRAST						High	FILTER	W-12
48	45	42	40	25	13											

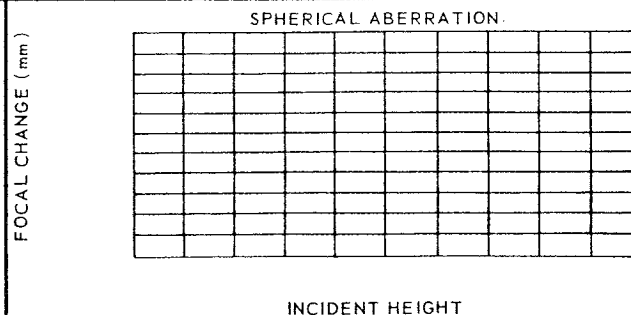
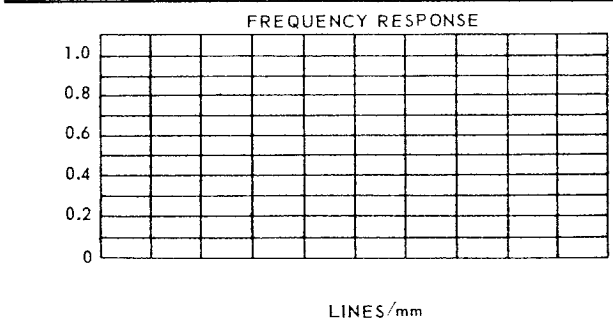
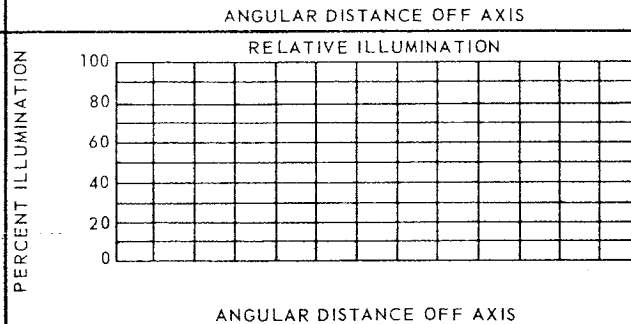
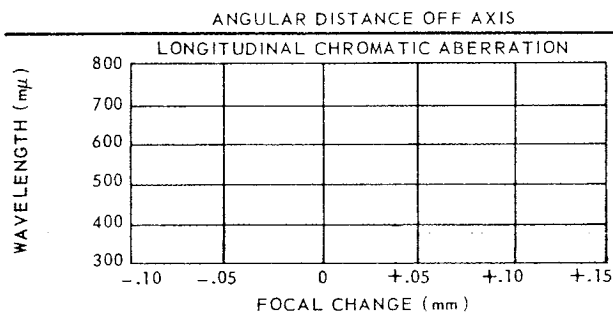
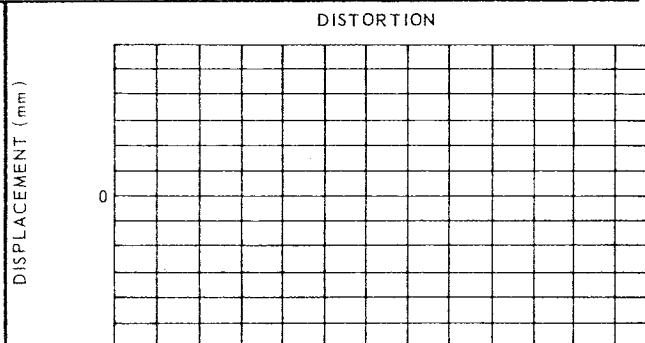
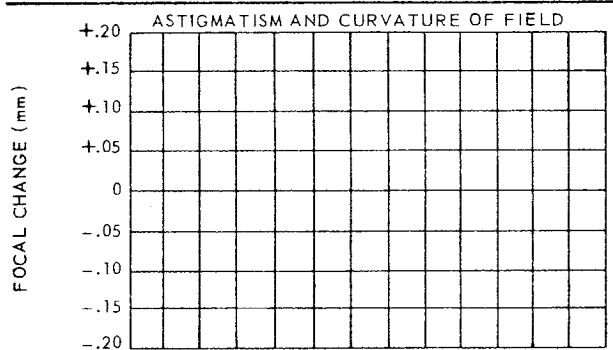
AWAR
35 L/mm

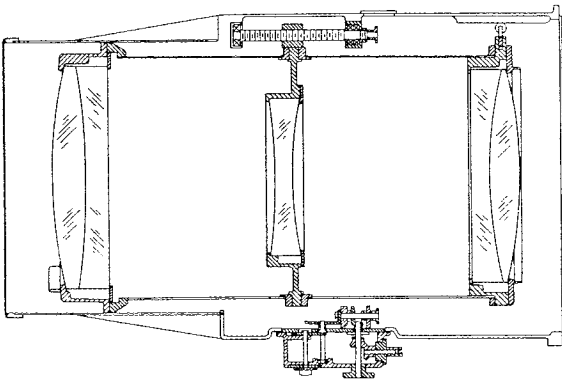
AVERAGE
RADIAL AND
TANGENTIAL

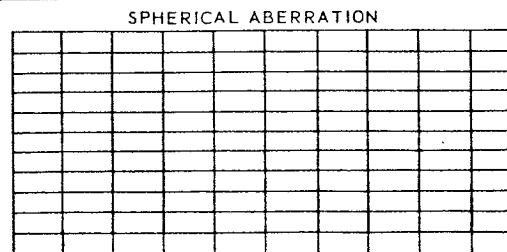
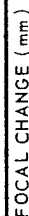
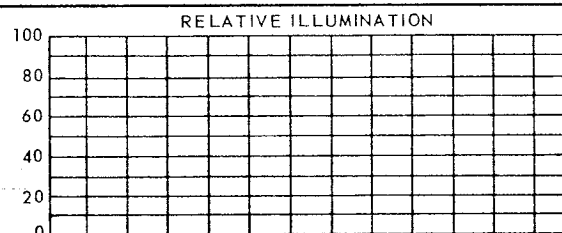
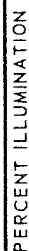
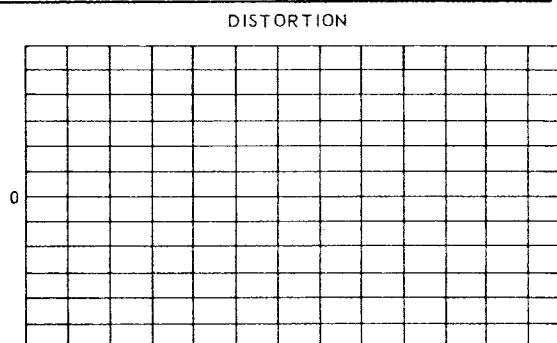
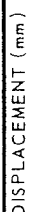
FILM						TARGET CONTRAST						FILTER					

AWAR
_____ L/mm

RADIAL
TANGENTIAL

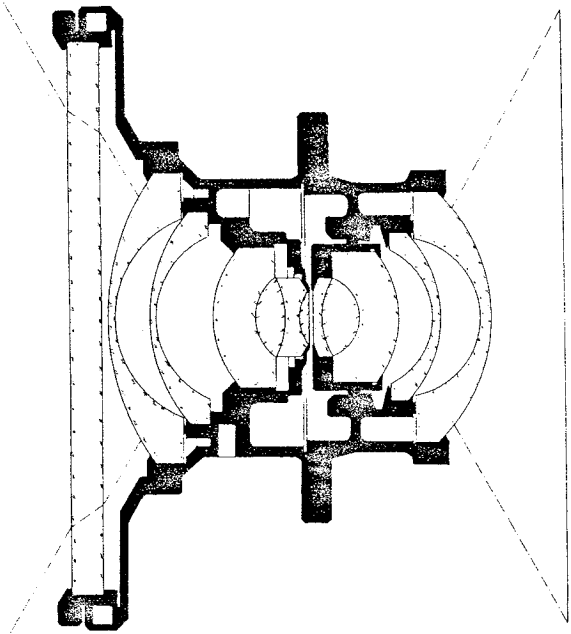
[illegible]

LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance			NAME Pentac Type		
FOCAL LENGTH 144 in.		RELATIVE APERTURE f/8.0		FORMAT 18 in. x 36 in.	
				MANUFACTURER Perkin-Elmer Corp.	
STOCK NO. Perkin-Elmer P/N 066-0001		SPECIFICATION NO.		STATUS	
GENERAL DESCRIPTION 					
CHARACTERISTICS					
EQUIVALENT FOCAL LENGTH 144 in. (3657.6 mm)			TRANSMITTANCE		
BACK FOCAL DISTANCE 123.945 in.			COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE			DISTORTION (Maximum)		
FLANGE FOCAL DISTANCE 120 in.			LENS CELL DIAMETER (Maximum) 35 in.		
SEMI-FIELD ANGLE 7.5°			OVERALL LENGTH 51.5 in.		
RELATIVE APERTURE f/8.0			WEIGHT		
REMARKS: Used on the following aircraft cameras: K-45					

[illegible][illegible][illegible][illegible][illegible]

INCIDENT HEIGHT

TYPE II
AERIAL MAPPING

LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Super Aviogon		
FOCAL LENGTH 1.75 in. (44 mm)	RELATIVE APERTURE f/5.6	FORMAT 4.5 in. x 4.5 in.	MANUFACTURER Wild Heerbrugg Ltd.	
STOCK NO.		SPECIFICATION NO.	STATUS Production	
GENERAL DESCRIPTION 				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 1.75 in. (44.0 mm)		TRANSMITTANCE		
BACK FOCAL DISTANCE .69 in. (17.7 mm)		COLOR CORRECTION Visible		
FRONT VERTEX BACK FOCAL DISTANCE		DISTORTION (Maximum) ± 0.011 mm		
FLANGE FOCAL DISTANCE 2.16 in. (55 mm)		LENS CELL DIAMETER (Maximum) 5.9 in. (150 mm)		
SEMI-FIELD ANGLE 60°		OVERALL LENGTH 4.13 in. (104 mm)		
RELATIVE APERTURE f/5.6		WEIGHT 2 lbs		
REMARKS: Used on the following aircraft cameras: KA-50A, KA-76, Maurer 500, CA-101, CA-114				

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
1.75 in. (44 mm)	f/5.6	4.5 in. x 4.5 in.	Wild Heerbrugg Ltd.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	25	30	35	40	45	50	55	60				
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FILM Panatomic X Aerofilm TARGET CONTRAST 1:1000 FILTER _____

RADIAL	88	86	87	76	50	35	29	32	42	67	40	13	5				
TANGENTIAL	88	86	86	76	60	54	45	42	43	45	35	22	11				

AWAR
40 L/mm

FILM _____ TARGET CONTRAST _____ FILTER _____

RADIAL																	
TANGENTIAL																	

AWAR
_____ L/mm

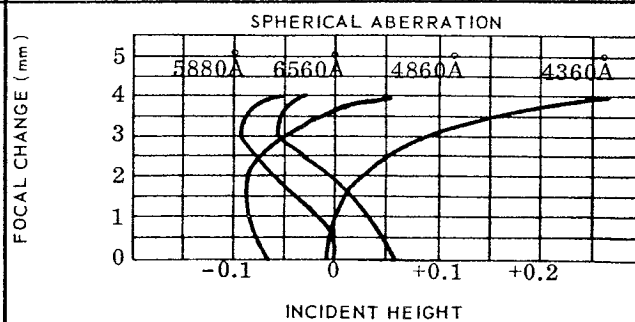
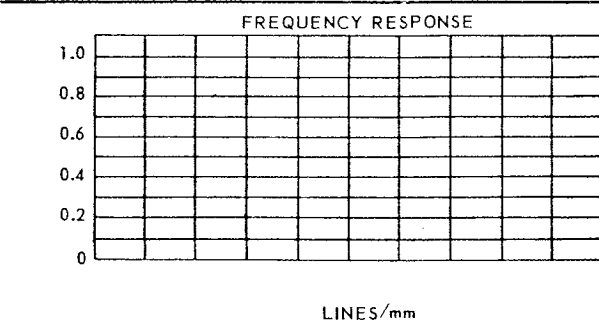
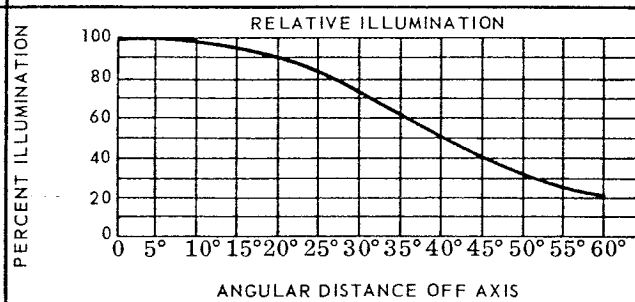
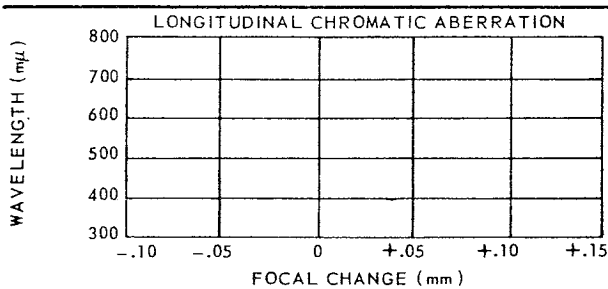
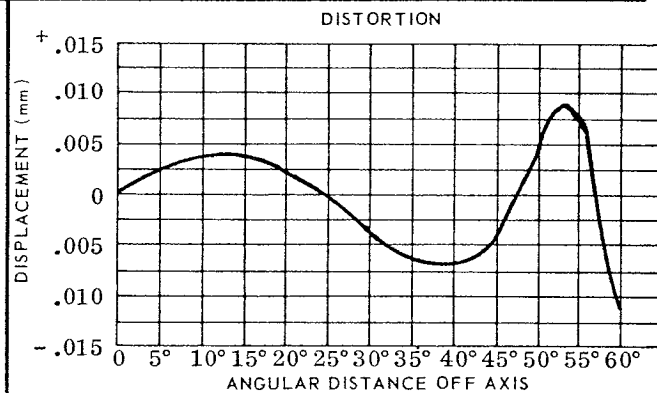
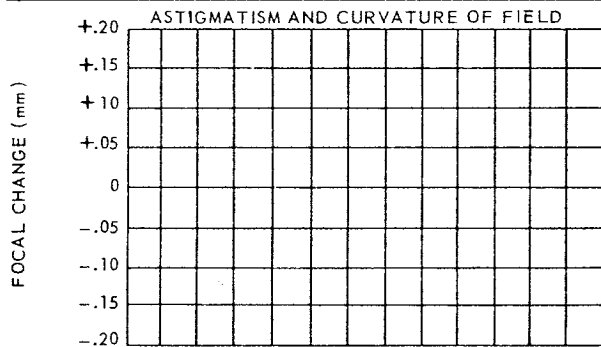
FILM _____ TARGET CONTRAST _____ FILTER _____

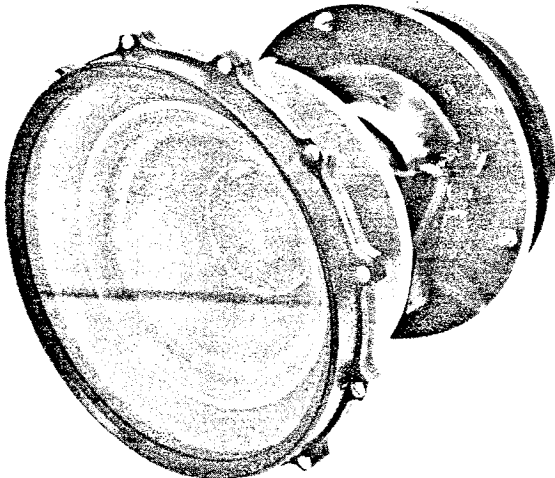
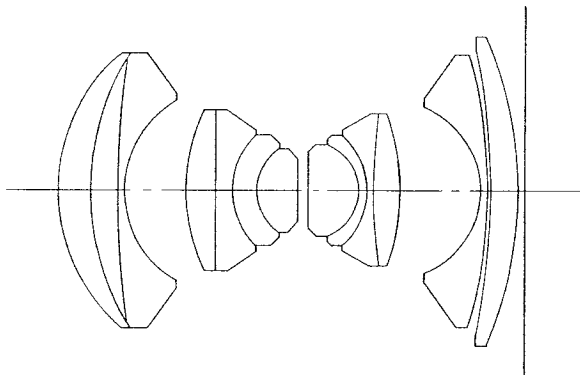
RADIAL																	
TANGENTIAL																	

AWAR
_____ L/mm

VISUAL _____ TARGET CONTRAST _____ FILTER _____

RADIAL																	
TANGENTIAL																	



LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type II Aerial Mapping			NAME Geocon III		
FOCAL LENGTH 3.0 in.		RELATIVE APERTURE f/2.5		FORMAT 4.5 in. x 4.5 in.	
				MANUFACTURER Perkin-Elmer Corp.	
STOCK NO.		SPECIFICATION NO.		STATUS Development	
GENERAL DESCRIPTION  					
CHARACTERISTICS					
EQUIVALENT FOCAL LENGTH 3.0 in. (76.18 mm)			TRANSMITTANCE 70%		
BACK FOCAL DISTANCE 0.11 in. (2.31 mm)			COLOR CORRECTION 5000 - 7000 Å		
FRONT VERTEX BACK FOCAL DISTANCE			DISTORTION (Maximum) ± 20 microns Radial ± 8 microns Tangential		
FLANGE FOCAL DISTANCE 1.525 in. (38.73 mm)			LENS CELL DIAMETER (Maximum) 8.85 in.		
SEMI-FIELD ANGLE 45°			OVERALL LENGTH 8.5 in.		
RELATIVE APERTURE f/2.5			WEIGHT 27 lbs.		
REMARKS:					

[illegible]FIELD
ANGLE (°)

0	5	10	15	20	25	30	35	40	45								
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RADIAL

FILM Plus X Aercon

TARGET CONTRAST

L. FILTER

TANGENTIAL

[illegible]

AWAR
41 L/mm

RADIAL

FILM Microfile

TARGET CONTRAST

__ FILTER

TANGENTIAL

70	72	101	90	96	85	41	43	28	15								
77	80	103	130	102	110	106	70	32	20								

AWAR
63 L/mm

RADIAL

FILM _____ TARGET CONTRAST _____ FILTER _____

TANGENTIAL

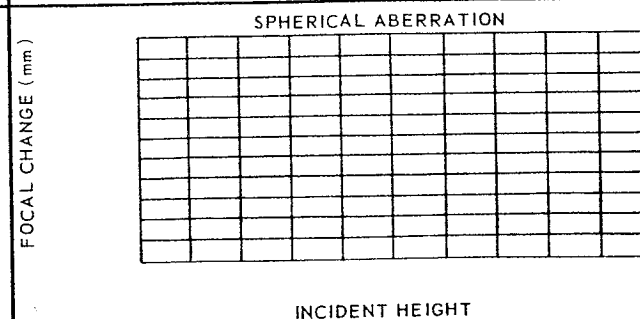
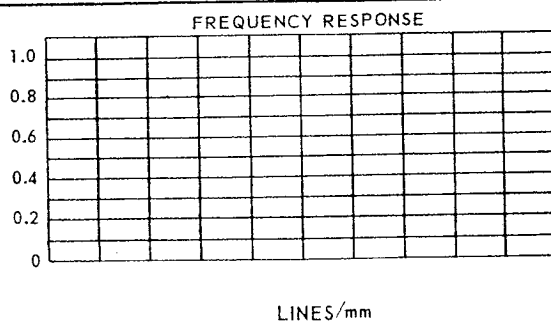
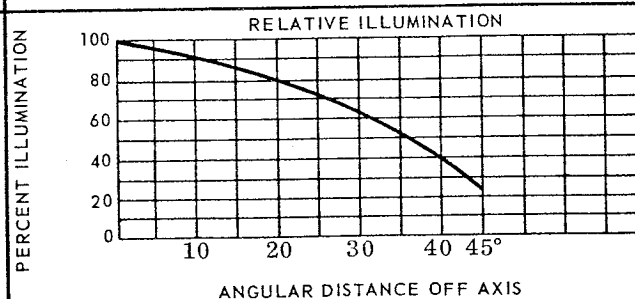
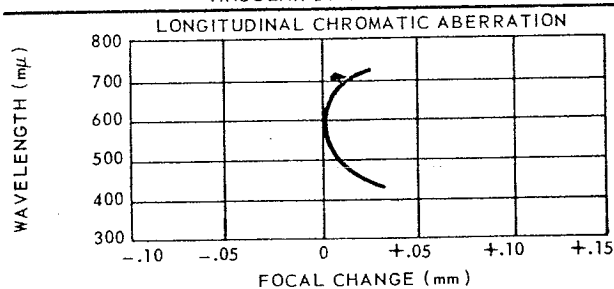
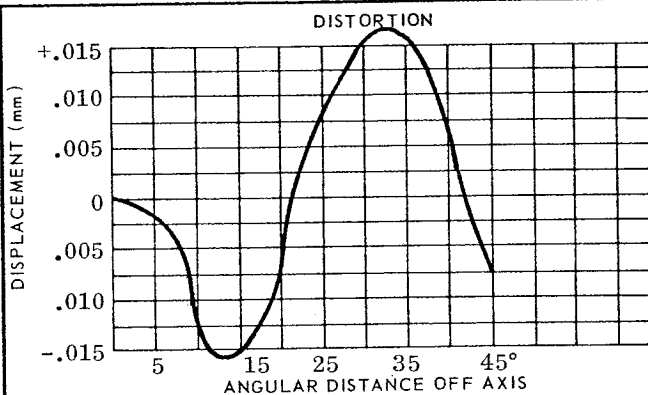
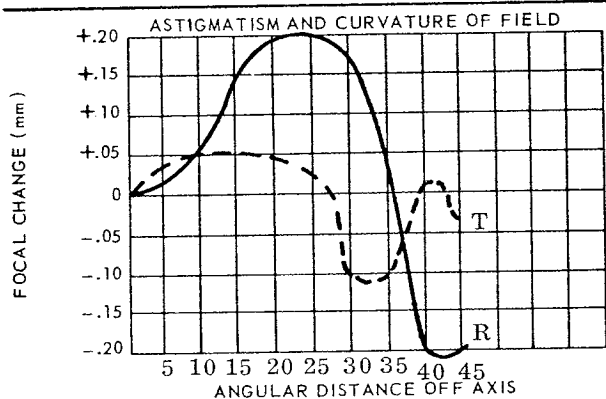
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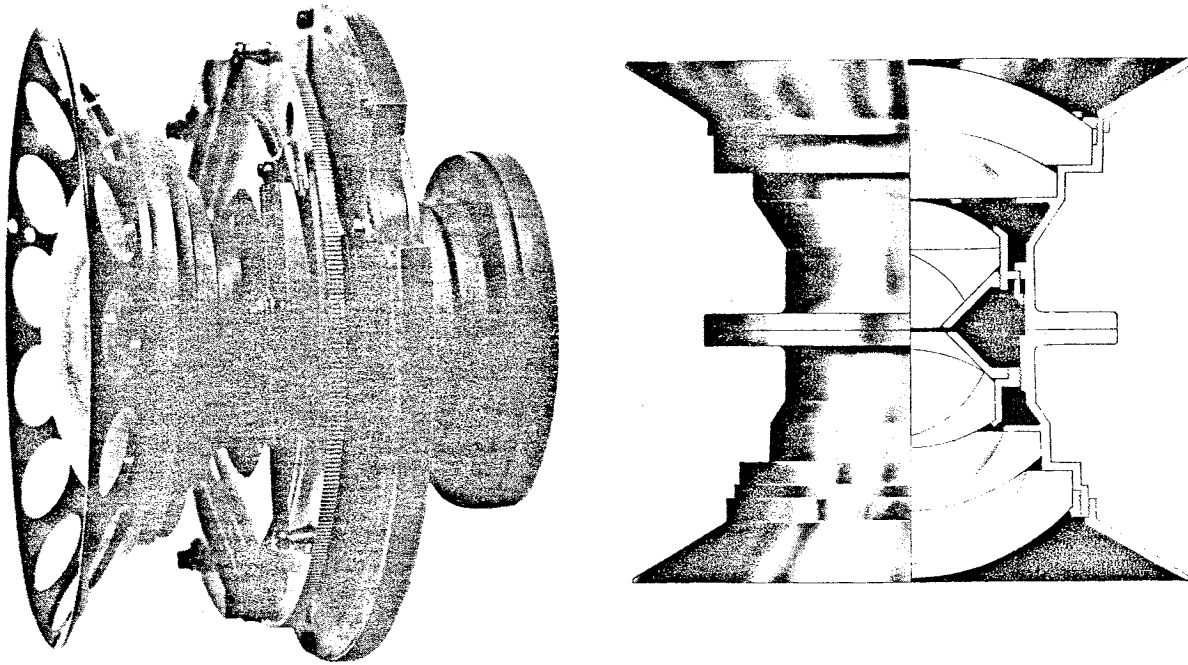
AWAR
_____ L/mm

RADIAL

VISUAL _____ TARGET CONTRAST _____ FILTER _____

TANGENTIAL

[illegible]

LENS DATA INFORMATION SHEET			DATE	
(Reference MIL-STD-150A for definition of terms and methods of measurement)			15 Sept. 1967	
TYPE (MIL-STD-150A)		NAME		
Type II Aerial Mapping		Super Aviogon		
FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER	
3.5 in. (88 mm)	f/5.6	9 in. x 9 in.	Wild Heerbrugg Ltd.	
STOCK NO.		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH		TRANSMITTANCE		
3.5 in. (88.265 mm)		61%		
BACK FOCAL DISTANCE		COLOR CORRECTION		
1.222 in.		Visible		
FRONT VERTEX BACK FOCAL DISTANCE		DISTORTION (Maximum)		
		0.10 mm		
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (Maximum)		
4.5 in. (114.5 mm)		8.27 in. (210 mm)		
SEMI-FIELD ANGLE		OVERALL LENGTH		
60°		7.24 in. (184 mm)		
RELATIVE APERTURE		WEIGHT		
f/5.6		19 lbs		
REMARKS:				
Used on the following aircraft cameras: KC-3, RC-9				

FOCAL LENGTH 3.5 in. (88 mm)	RELATIVE APERTURE f/5.6	FORMAT 9 in. x 9 in.	MANUFACTURER Wild Heerbrugg Ltd.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	25	30	35	40	45	50	55						
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FILM Super XX TARGET CONTRAST High FILTER W-12

RADIAL	43	45	54	56	46	31	26	26	47	24	11	4						
TANGENTIAL	43	38	53	45	40	32	26	23	27	22	17	9						

AWAR
24 L/mm

FILM SO1213 TARGET CONTRAST High FILTER _____

RADIAL	86	91	85	133	91	70	53	79	105	31	37	30						
TANGENTIAL	109	86	83	90	76	63	52	58	57	34	22	17						

AWAR
54 L/mm

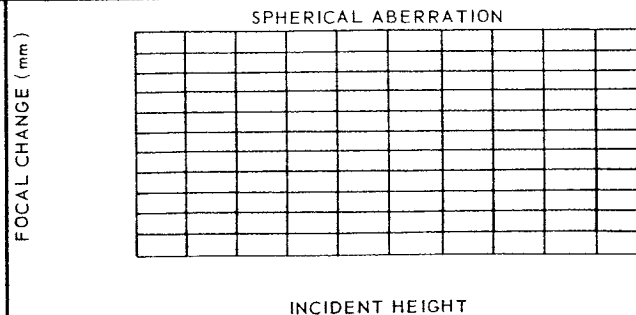
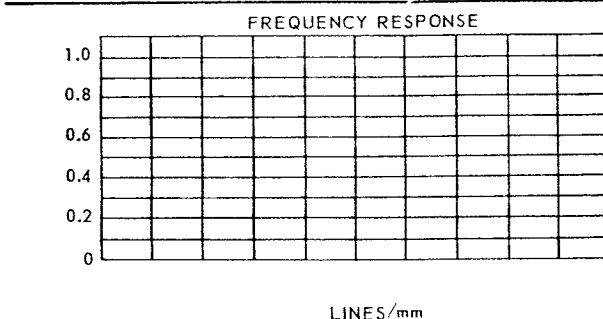
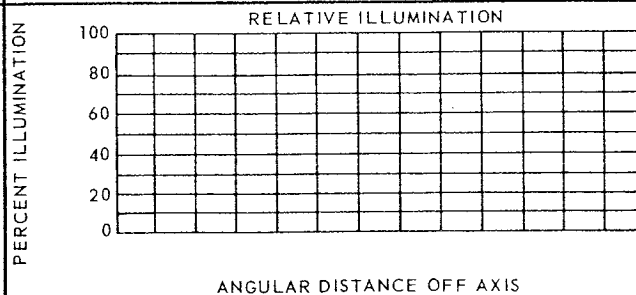
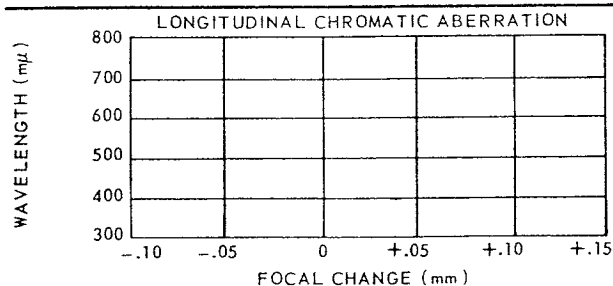
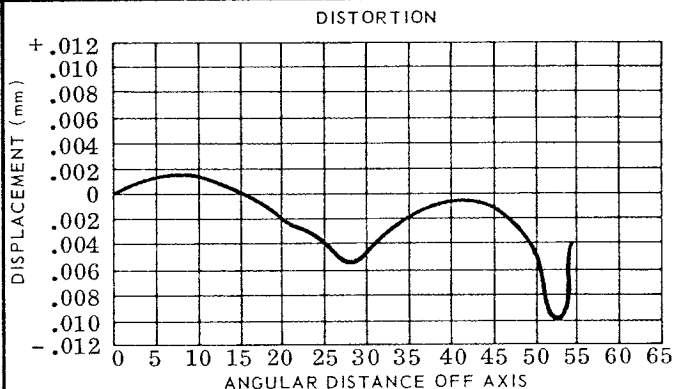
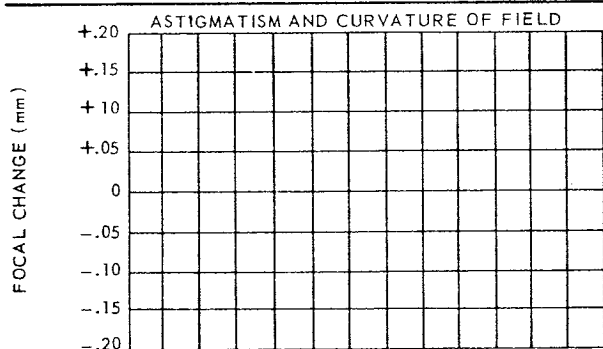
FILM V-F Glass Plate TARGET CONTRAST High FILTER W-12

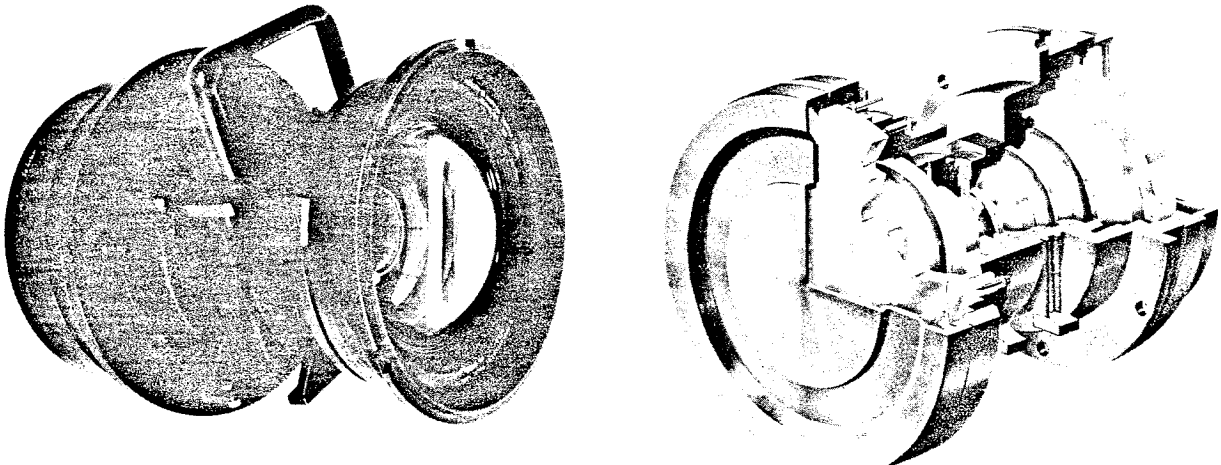
RADIAL	63	63	75	75	63	27	23	23	46	53	23	14						
TANGENTIAL	63	63	75	75	53	46	46	27	39	23	14	11						

AWAR
_____ L/mm

VISUAL _____ TARGET CONTRAST _____ FILTER _____

RADIAL																		
TANGENTIAL																		



LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Geocon IV B		
FOCAL LENGTH 6.0 in.	RELATIVE APERTURE f/5.0	FORMAT 9.0 in. x 9.0 in.	MANUFACTURER Kollsman Instrument Corp.	
STOCK NO.		SPECIFICATION NO.	STATUS Production	
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)		TRANSMITTANCE T.9 (with anti-vignetting filter)		
BACK FOCAL DISTANCE 2.024 in. (51.4 mm)		COLOR CORRECTION 5000 - 7000 Å		
FRONT VERTEX BACK FOCAL DISTANCE 10.25 in.		DISTORTION (Maximum) (Radial and 8 microns Tangential)		
FLANGE FOCAL DISTANCE 3.7 in.		LENS CELL DIAMETER (Maximum) 9.5 in.		
SEMI-FIELD ANGLE 45°		OVERALL LENGTH 9.6 in. (with filter)		
RELATIVE APERTURE f/5.0		WEIGHT 39 lbs.		
REMARKS:				

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6.0 in.	f/5.0	9.0 in. x 9.0 in.	Kollsman Instrument Corp.

Photographic Resolving Power in Lines /mm

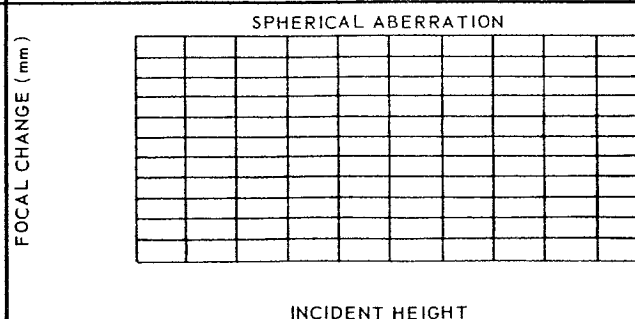
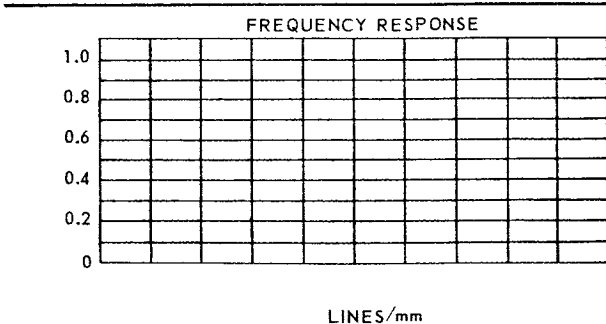
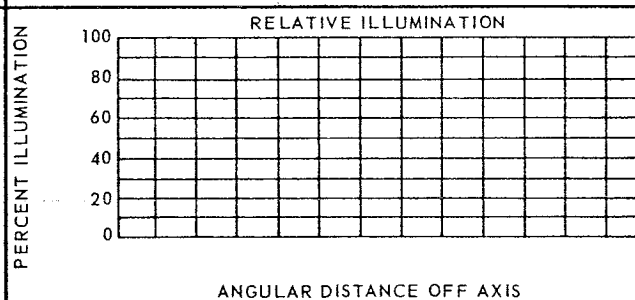
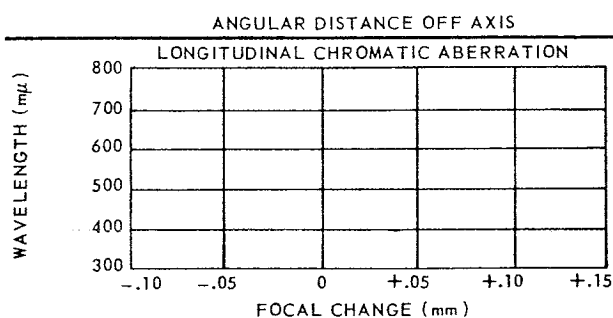
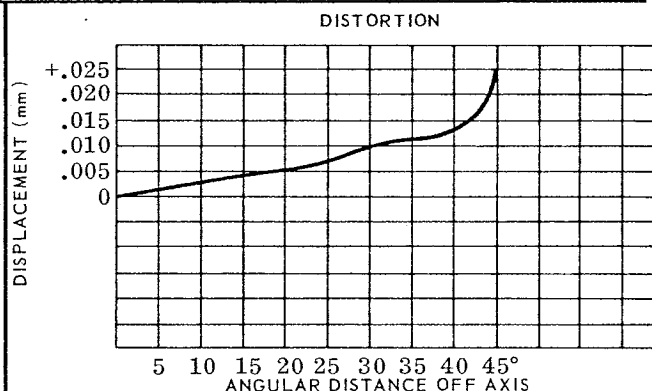
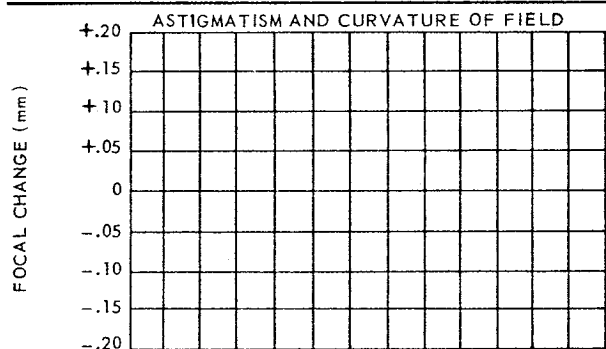
FIELD ANGLE (°)	0	7.5	15	22.5	27.5	30	32.5	35	37.5	40	42.5	45							
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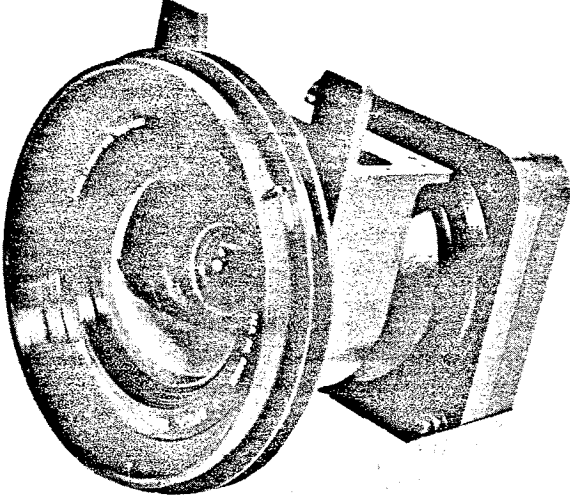
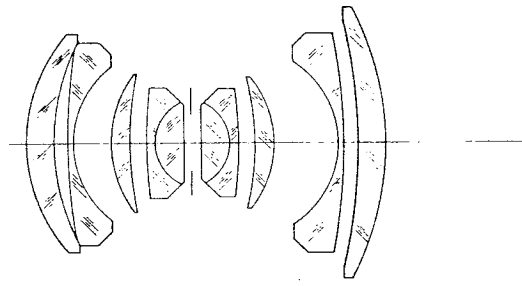
	FILM <u>5401</u>										TARGET CONTRAST <u>High</u>				FILTER <u>W-12</u>				
RADIAL	48	54	51	44	48	45	48	42	29	34	29	26							AWAR
TANGENTIAL	50	54	63	55	50	47	47	43	38	39	37	34							<u>46</u> L/mm

	FILM _____										TARGET CONTRAST _____				FILTER _____				AWAR
RADIAL																			_____ L/mm
TANGENTIAL																			

	FILM _____										TARGET CONTRAST _____				FILTER _____				AWAR
RADIAL																			_____ L/mm
TANGENTIAL																			

	VISUAL _____										TARGET CONTRAST _____				FILTER _____				
RADIAL																			
TANGENTIAL																			



LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Geocon I		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/5.6	FORMAT 9 in. x 9 in.	MANUFACTURER J. G. Baker	
STOCK NO.		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION  				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.085 mm)		TRANSMITTANCE 62% (Without filter)		
BACK FOCAL DISTANCE 2.92 in. (74.2 mm)		COLOR CORRECTION 5461-6563 Å		
FRONT VERTEX BACK FOCAL DISTANCE 9.4 in.		DISTORTION (Maximum) ± 7.5 Microns		
FLANGE FOCAL DISTANCE 3.95 in.		LENS CELL DIAMETER (Maximum)		
SEMI-FIELD ANGLE 45°		OVERALL LENGTH 6.5 in.		
RELATIVE APERTURE f/5.6		WEIGHT		
REMARKS: Used on the following aircraft cameras: KC-4				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/5.6	FORMAT 9 in. x 9 in.	MANUFACTURER J. G. Baker
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)

0	5	10	15	20	25	30	35	40	45								
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FILM Plus X TARGET CONTRAST High FILTER W-12
 RADIAL

42	45	41	46	54	49	47	37	26	29								
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 AWAR 40 L/mm
 TANGENTIAL

38	38	41	40	40	40	36	28	17	15								
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FILM SO-213 TARGET CONTRAST High FILTER _____
 RADIAL

70	74	78	71	94	71	61	51	40	37								
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 AWAR 54 L/mm
 TANGENTIAL

100	80	64	74	63	44	42	35	33	35								
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FILM SO-213 TARGET CONTRAST Low FILTER _____
 RADIAL

56	47	53	51	53	53	46	41	32	33								
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 AWAR 38 L/mm
 TANGENTIAL

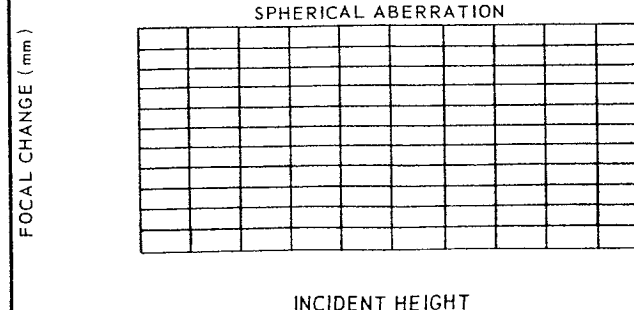
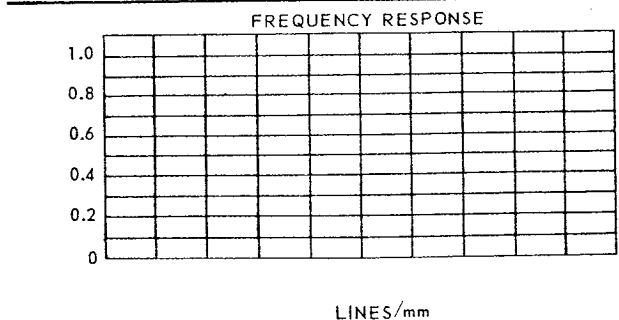
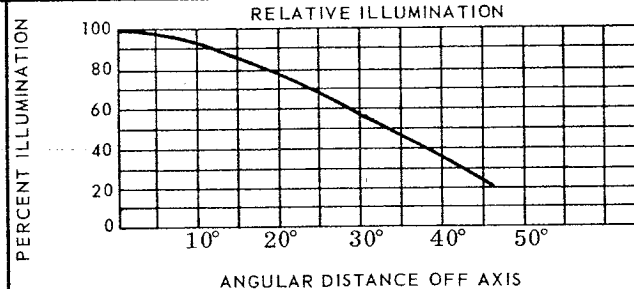
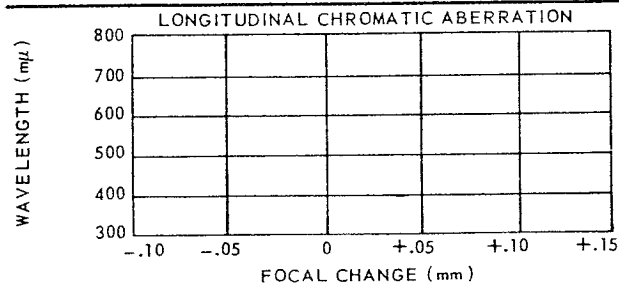
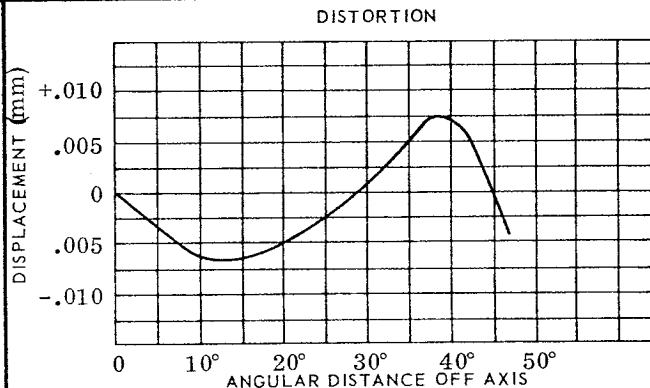
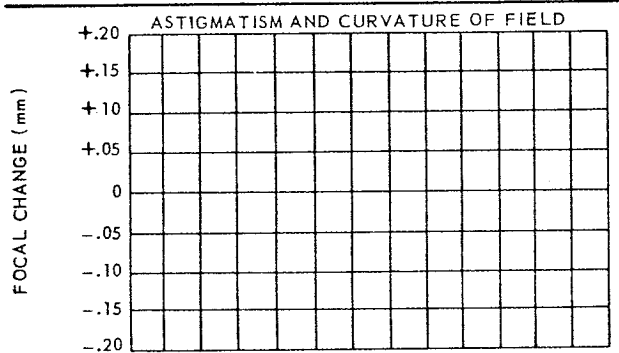
40	47	46	49	40	33	35	23	22	24								
----	----	----	----	----	----	----	----	----	----	--	--	--	--	--	--	--	--

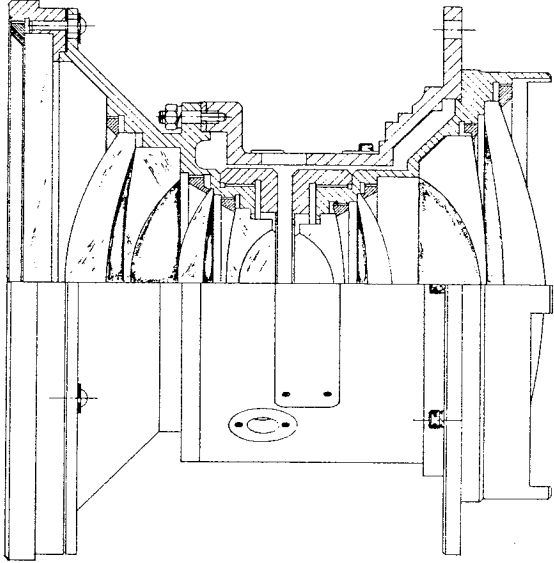
VISUAL _____ TARGET CONTRAST _____ FILTER _____
 RADIAL

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 TANGENTIAL

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LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Geocon		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/5.6	FORMAT 9 in. x 9 in.	MANUFACTURER Fairchild Space & Defense Systems, El Segundo	
STOCK NO. Fairchild P/N 13212-AD		SPECIFICATION NO.	STATUS Production	
GENERAL DESCRIPTION 				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)		TRANSMITTANCE		
BACK FOCAL DISTANCE 2.9432 in.		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE 9.3901 in.		DISTORTION (Maximum)		
FLANGE FOCAL DISTANCE 3.930 ± .030 in.		LENS CELL DIAMETER (Maximum) 7.625 in.		
SEMI-FIELD ANGLE 45°		OVERALL LENGTH 7.390 in.		
RELATIVE APERTURE f/5.6		WEIGHT 15 lbs with filter		
REMARKS: Used on the following aircraft camera: KC-4				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/5.6	FORMAT 9 in. x 9 in.	MANUFACTURER Fairchild Space & Defense Systems, El Segundo
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	10	20	30	35	40	42.5	45										
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FILM	8401	TARGET CONTRAST	1000:1	FILTER	W-12													
RADIAL	57	63	67	70	50	37	42	40										
TANGENTIAL	57	50	43	39	29	20	27	25										

AWAR
46 L/mm

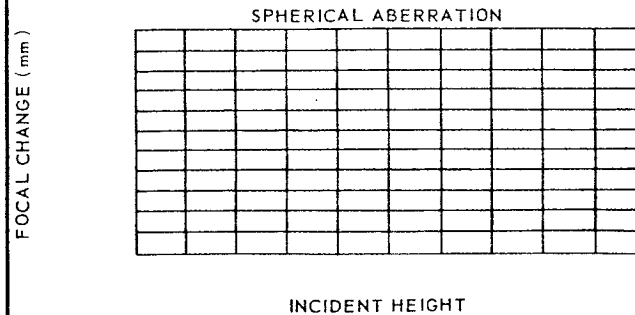
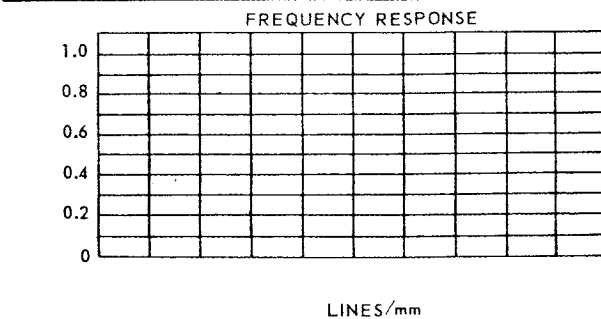
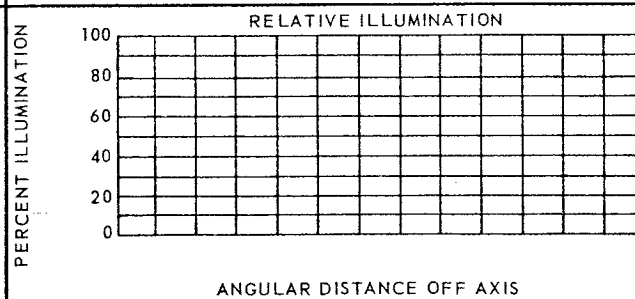
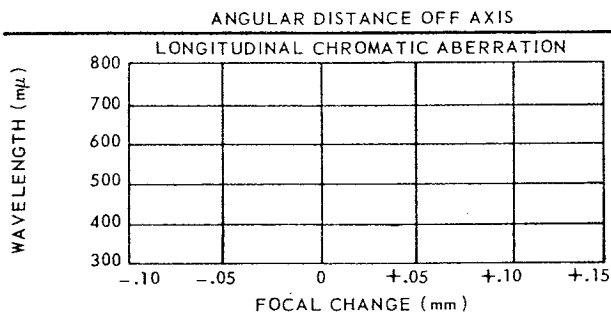
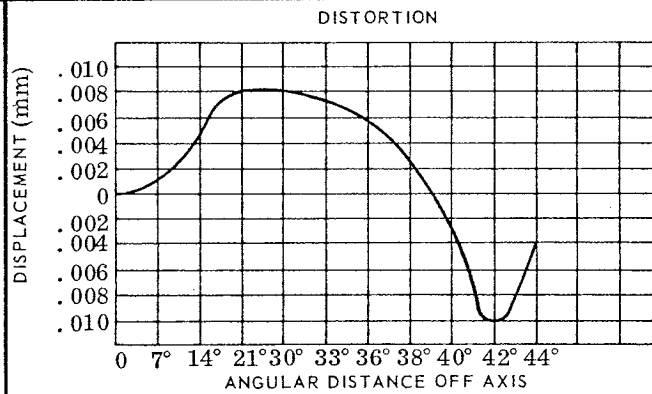
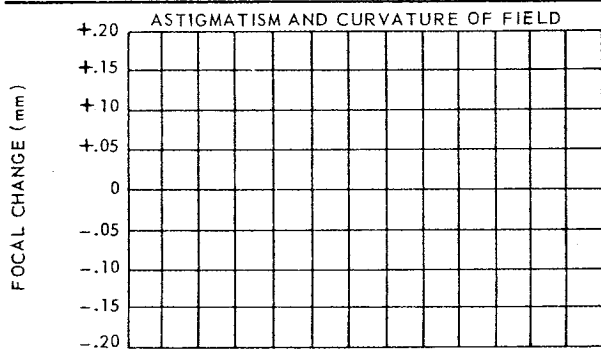
FILM		TARGET CONTRAST		FILTER														
RADIAL																		
TANGENTIAL																		

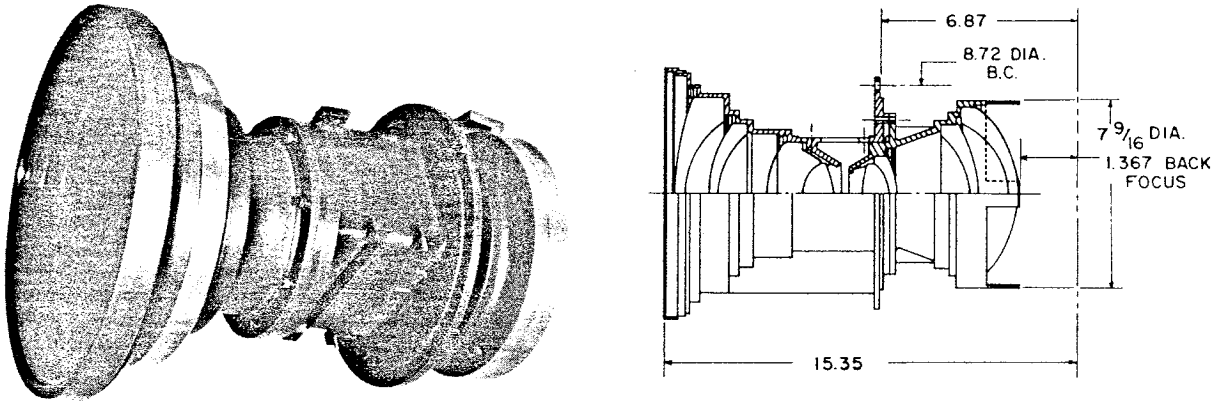
AWAR
L/mm

FILM		TARGET CONTRAST		FILTER														
RADIAL																		
TANGENTIAL																		

AWAR
L/mm

VISUAL		TARGET CONTRAST		FILTER														
RADIAL																		
TANGENTIAL																		



LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME MAP 880		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/5.6	FORMAT 9 in. x 9 in.	MANUFACTURER Perkin-Elmer Corp.	
STOCK NO.		SPECIFICATION NO.	STATUS Current	
GENERAL DESCRIPTION				
 The image shows a physical aerial photograph of the lens assembly on the left and a technical cross-section diagram on the right. The diagram includes the following dimensions: a total length of 15.35 inches, a back focal distance of 6.87 inches, an 8.72 inch diameter back cover (B.C.), a 7 9/16 inch diameter, and a 1.367 inch back focus.				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)		TRANSMITTANCE (T 16.3)		
BACK FOCAL DISTANCE 1.367 in. (34.7 mm)		COLOR CORRECTION 5461-6563 Å		
FRONT VERTEX BACK FOCAL DISTANCE 15 in. (381.0 mm)		DISTORTION (Maximum) 8 microns		
FLANGE FOCAL DISTANCE 6.85 in. (174 mm)		LENS CELL DIAMETER (Maximum) 10.3 in. (263 mm)		
SEMI-FIELD ANGLE 46°		OVERALL LENGTH 14.1 in. (360 mm)		
RELATIVE APERTURE f/5.6		WEIGHT 50.4 lbs. (in meehanite cell)		
REMARKS:				

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/5.6	9 in. x 9 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	25	30	35	40	45								
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FILM	Plus X 8401										TARGET CONTRAST	1000:1		FILTER	W 12			
RADIAL	67	67	60	60	60	65	65	58	62	53								
TANGENTIAL	67	60	52	50	42	47	50	50	33	36								

AWAR
53 L/mm

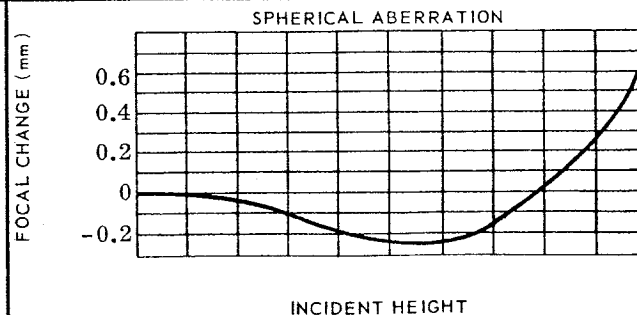
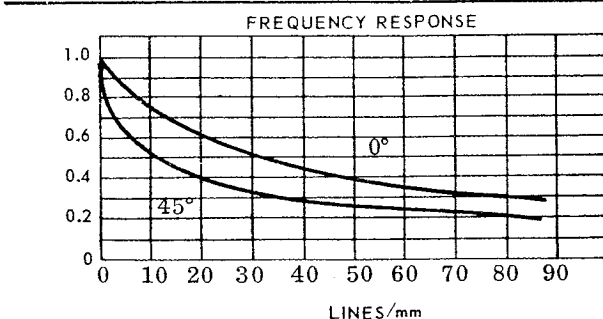
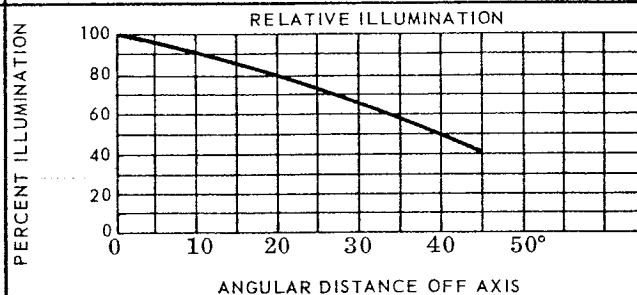
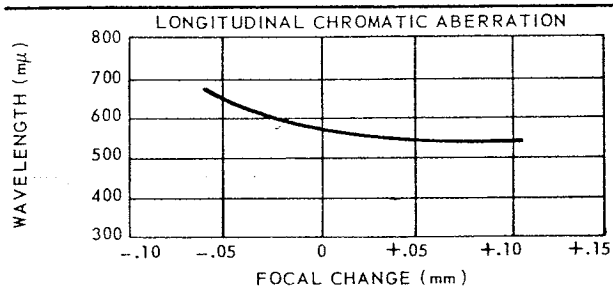
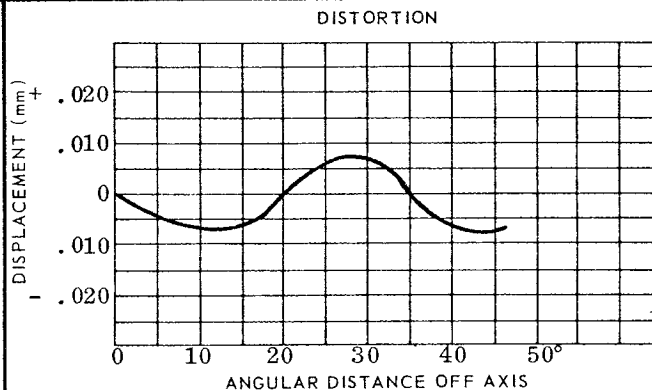
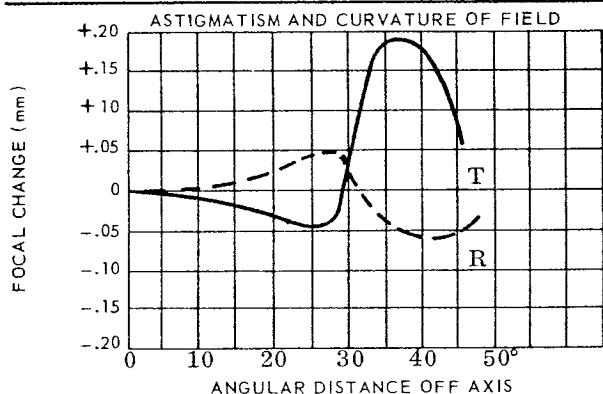
FILM											TARGET CONTRAST			FILTER				
RADIAL																		
TANGENTIAL																		

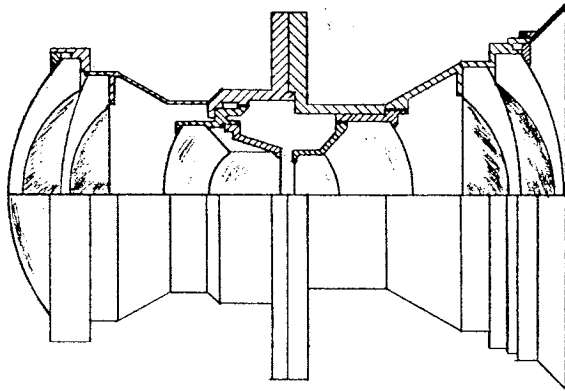
AWAR
L/mm

FILM	VF										TARGET CONTRAST	1000:1		FILTER	W 12			
RADIAL	108	108	108	108	108	96	96	88	76	76								
TANGENTIAL	108	108	108	96	76	88	88	54	44	62								

AWAR
82 L/mm

VISUAL											TARGET CONTRAST			FILTER				
RADIAL																		
TANGENTIAL																		



LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Aviogon		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/5.6	FORMAT 9 in. x 9 in.	MANUFACTURER Wild Heerbrugg Ltd.	
STOCK NO.		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION 				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)		TRANSMITTANCE 64% (T-7.0)		
BACK FOCAL DISTANCE		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE		DISTORTION (Maximum) 10 Microns		
FLANGE FOCAL DISTANCE 8.19 in. (208 mm)		LENS CELL DIAMETER (Maximum) 8 in. (205 mm)		
SEMI-FIELD ANGLE 45°		OVERALL LENGTH 12 in. (320 mm)		
RELATIVE APERTURE f/5.6		WEIGHT		
REMARKS: Used on the following aircraft cameras: KC-7, RC-8				

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/5.6	9 in. x 9 in.	Wild Heerbrugg Ltd.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	25	30	35	40	45										
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FILM Super X TARGET CONTRAST High FILTER W-12

RADIAL	50	56	42	51	34	31	37	41	19	7										
TANGENTIAL	56	44	41	37	33	34	30	23	21	10										

AWAR
33 L/mm

FILM Agfa Isopan TARGET CONTRAST _____ FILTER _____

RADIAL	53	53	52	51	49	43	51	49	26	8										
TANGENTIAL	53	53	51	49	52	49	44	30	31	15										

AWAR
_____ L/mm

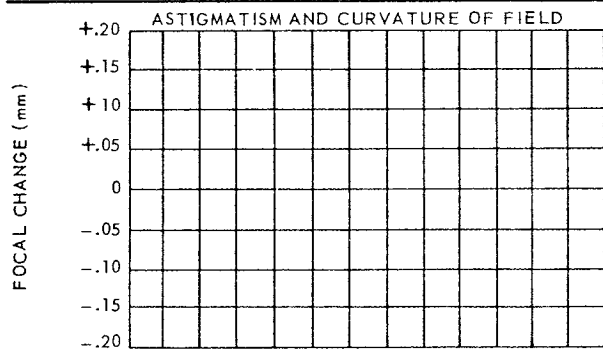
FILM _____ TARGET CONTRAST _____ FILTER _____

RADIAL																				
TANGENTIAL																				

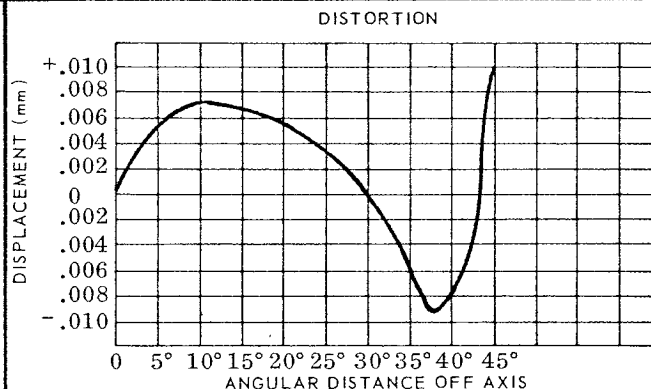
AWAR
_____ L/mm

VISUAL _____ TARGET CONTRAST _____ FILTER _____

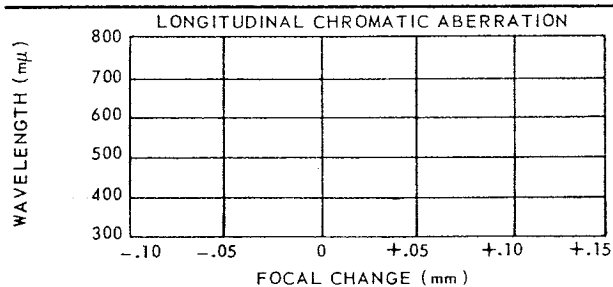
RADIAL																				
TANGENTIAL																				



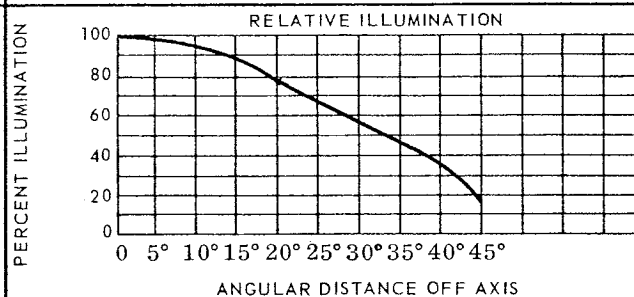
ANGULAR DISTANCE OFF AXIS



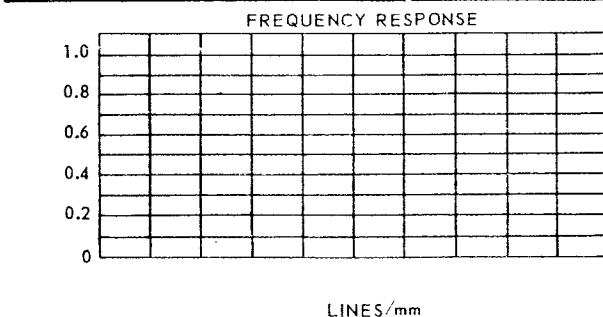
ANGULAR DISTANCE OFF AXIS



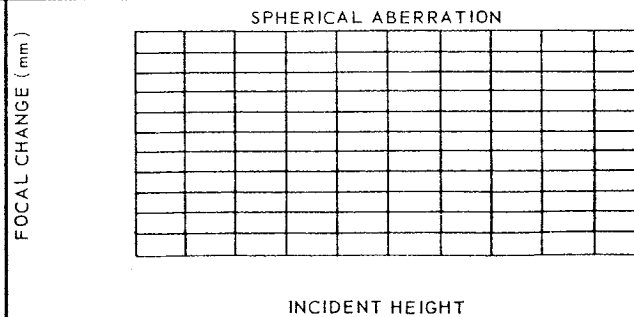
FOCAL CHANGE (mm)



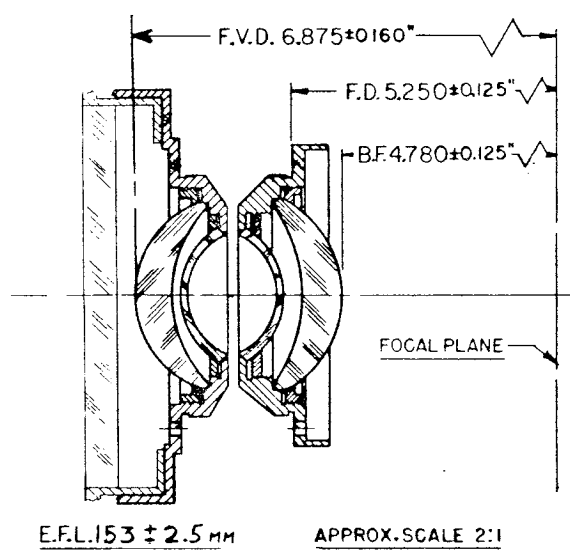
ANGULAR DISTANCE OFF AXIS



LINE/mm



INCIDENT HEIGHT

LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Metrogon		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/6.3	FORMAT 9 in. x 9 in.	MANUFACTURER Bausch & Lomb, Inc.	
STOCK NO.		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION  E.F.L. 153 ± 2.5 mm APPROX. SCALE 2:1				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (153 mm)		TRANSMITTANCE		
BACK FOCAL DISTANCE 4.78 in.		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE 6.87		DISTORTION (Maximum) .12 mm		
FLANGE FOCAL DISTANCE 5.250 in.		LENS CELL DIAMETER (Maximum) 4.75 in.		
SEMI-FIELD ANGLE 45°		OVERALL LENGTH 2.48 in.		
RELATIVE APERTURE f/6.3		WEIGHT		
REMARKS: Used on the following aircraft cameras: T-11, T-11B				

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/6.3	9 in. x 9 in.	Bausch & Lomb, Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	7.5	15	22.5	27.5	30	32.5	35	37.5	40	42.5	45							
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FILM	Super XX										TARGET CONTRAST	High		FILTER	W-12				
RADIAL	36	33	30	29	29	26	23	17	18	16	15	14							
TANGENTIAL	41	31	24	23	26	19	20	19	22	19	19	15							

AWAR
23 L/mm

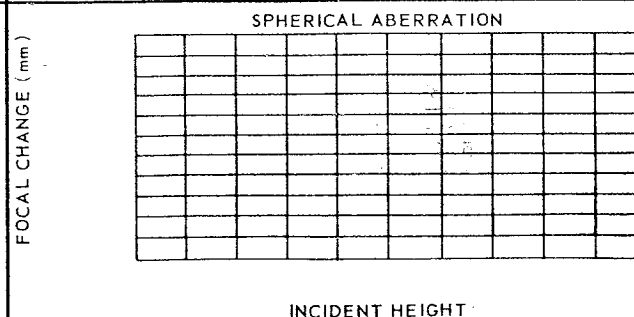
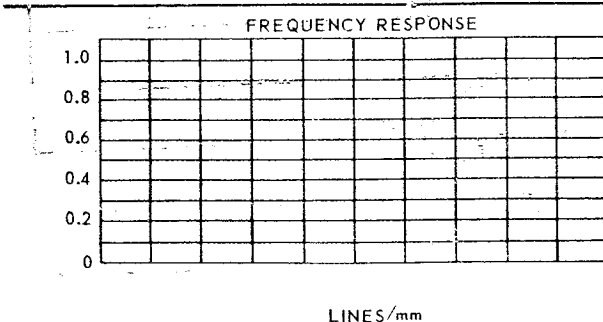
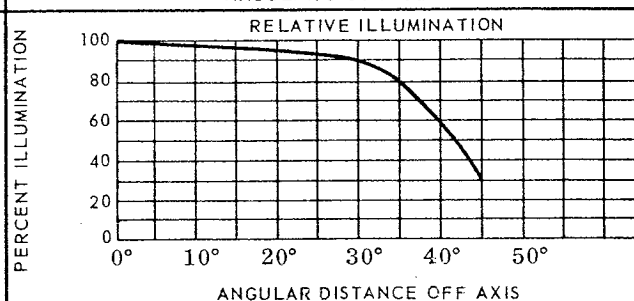
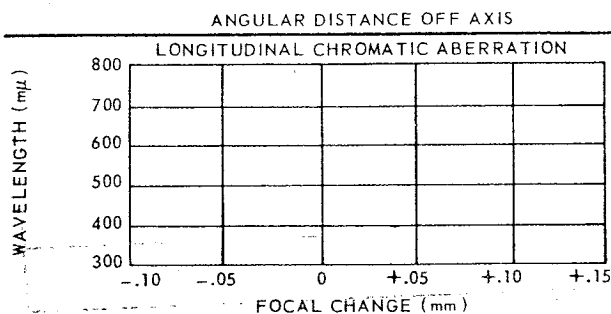
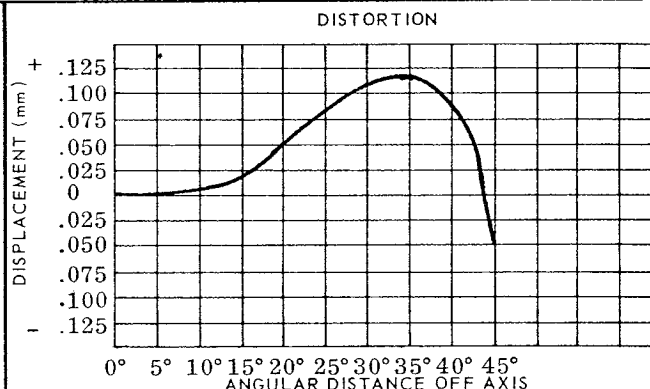
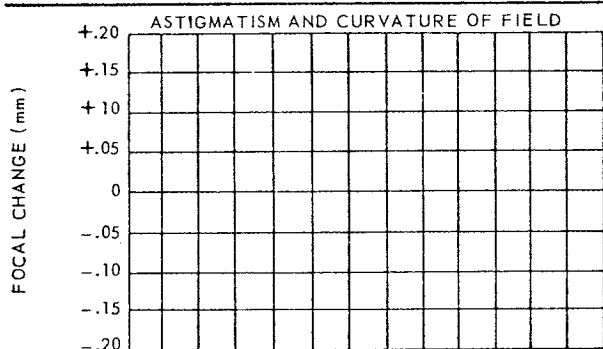
FILM											TARGET CONTRAST			FILTER					
RADIAL																			
TANGENTIAL																			

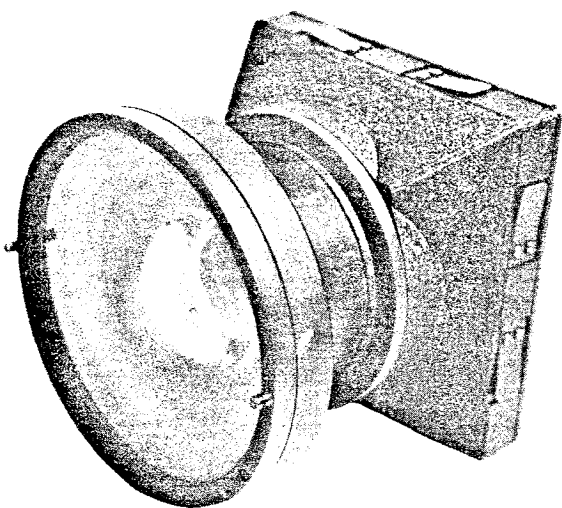
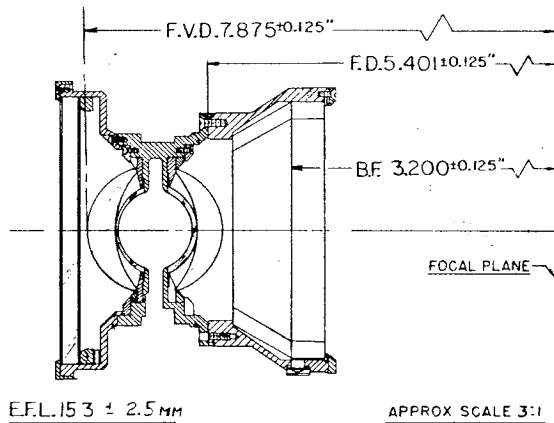
AWAR
L/mm

FILM											TARGET CONTRAST			FILTER					
RADIAL																			
TANGENTIAL																			

AWAR
L/mm

VISUAL											TARGET CONTRAST			FILTER					
RADIAL																			
TANGENTIAL																			



LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Planigon		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/6.3	FORMAT 9 in. x 9 in.	MANUFACTURER Bausch & Lomb, Inc.	
STOCK NO.		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION  				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (153 mm)		TRANSMITTANCE T-15		
BACK FOCAL DISTANCE 3.2 in.		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE 7.875 in.		DISTORTION (Maximum) .025 mm		
FLANGE FOCAL DISTANCE 5.401 in.		LENS CELL DIAMETER (Maximum) 5.50 in.		
SEMI-FIELD ANGLE 45°		OVERALL LENGTH 4.675 in.		
RELATIVE APERTURE f/6.3		WEIGHT		
REMARKS: Used on the following aircraft cameras: KC-1, KC-1A				

FIELD ANGLE (°)	0	7.5	15	22.5	27.5	30	32.5	35	37.5	40	42.5	45							
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FILM Super X TARGET CONTRAST High FILTER W-12

RADIAL	36	36	28	31	31	25	23	18	17	16	18	18						
TANGENTIAL	36	39	32	30	26	29	29	25	28	26	28	25						

AWAR
26 L/mm

FILM SO-213 TARGET CONTRAST High FILTER W-12

RADIAL	80		72			58			54		52					
TANGENTIAL	70		58			52			42		30					

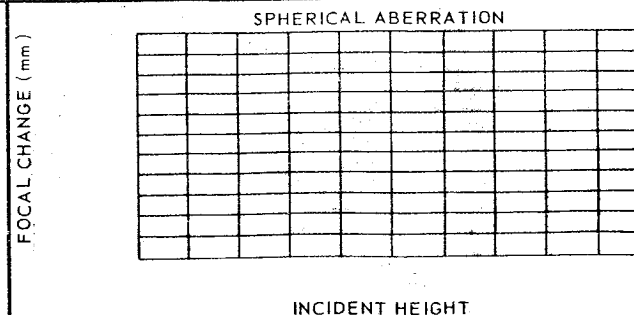
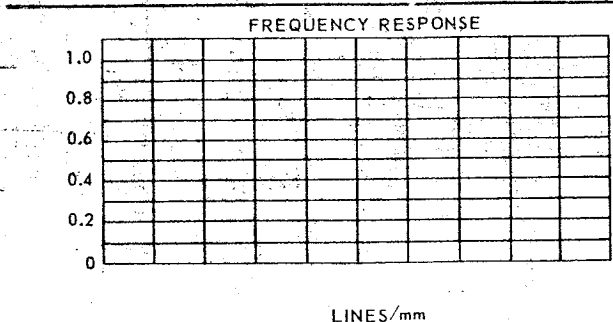
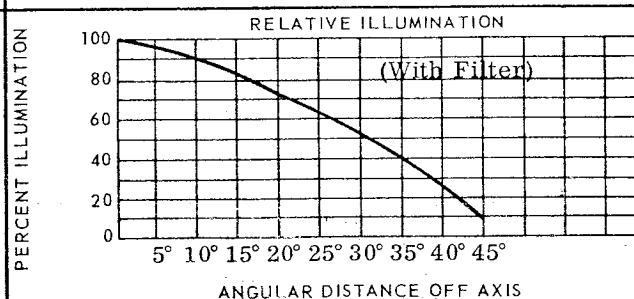
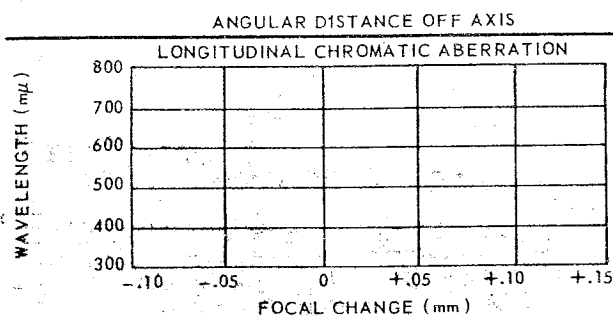
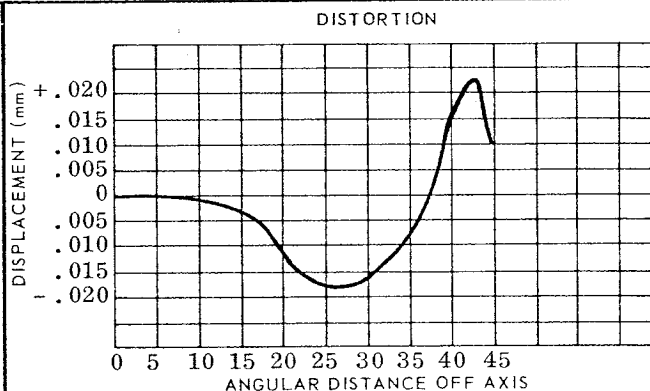
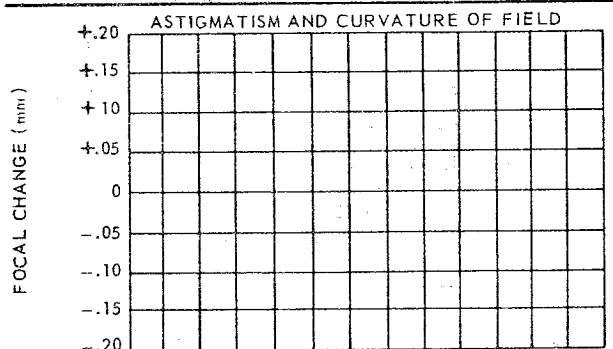
AWAR
53 L/mm

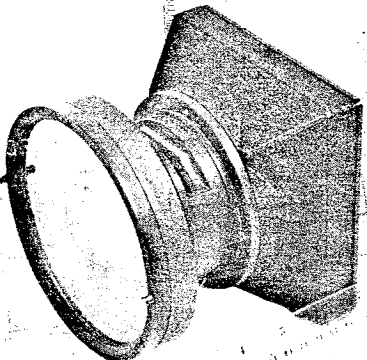
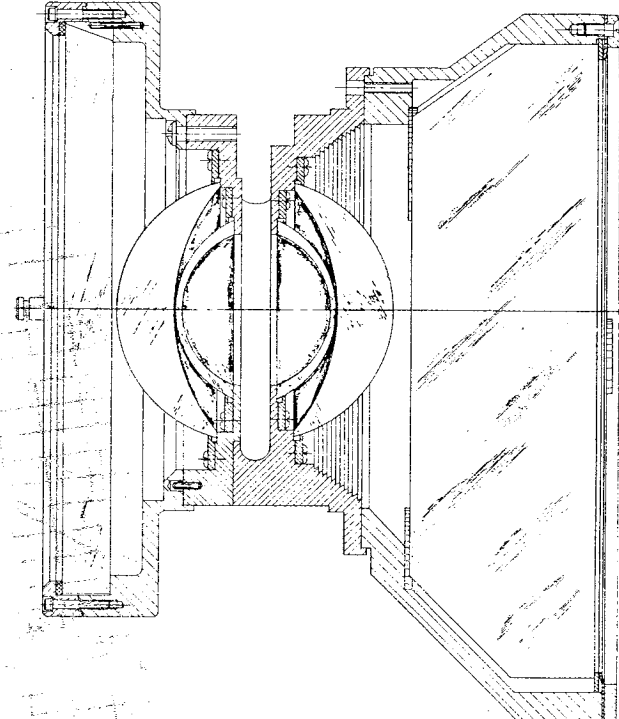
FILM _____ TARGET CONTRAST _____ FILTER _____

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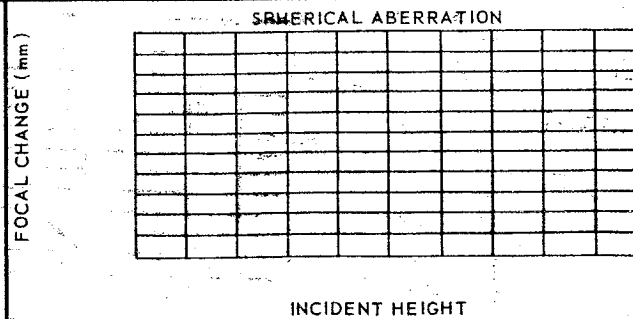
AWAR

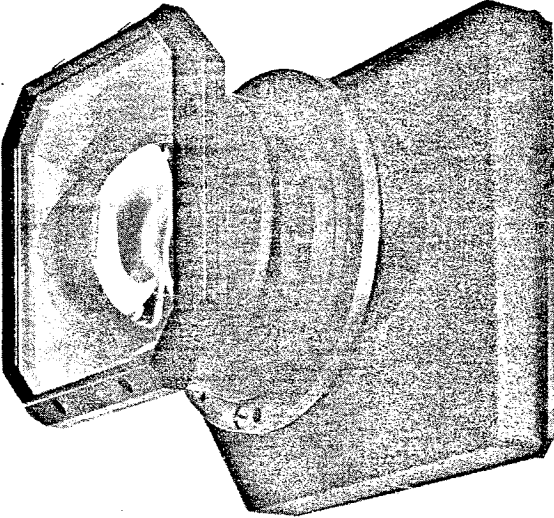
VISUAL _____ TARGET CONTRAST _____ FILTER _____

[illegible]

LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Planigon		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/6.3	FORMAT 9 in. x 9 in.	MANUFACTURER Fairchild (Curtis)	
STOCK NO.		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION  				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152 ± 2.5 mm)		TRANSMITTANCE T-15		
BACK FOCAL DISTANCE 3.2 in. ± .125 in.		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE 7.875 in.		DISTORTION (Maximum) .025 mm		
FLANGE FOCAL DISTANCE 5.415 in.		LENS CELL DIAMETER (Maximum)		
SEMI-FIELD ANGLE 45°		OVERALL LENGTH		
RELATIVE APERTURE f/6.3		WEIGHT		
REMARKS: Used on the following aircraft cameras: KC-1, KC-1A				

Photographic Resolving Power in Lines /mm

[illegible]

LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Planigon		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/6.3	FORMAT 9 in. x 9 in.	MANUFACTURER Fairchild Space & Defense Systems, El Segundo	
STOCK NO. Fairchild P/N 12011-AD		SPECIFICATION NO.	STATUS Production	
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)		TRANSMITTANCE		
BACK FOCAL DISTANCE 3.156 in.		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE 7.906 in.		DISTORTION (Maximum)		
FLANGE FOCAL DISTANCE 5.401 ± .125 in.		LENS CELL DIAMETER (Maximum) 5.875 in.		
SEMI-FIELD ANGLE 45°		OVERALL LENGTH 5.125 in.		
RELATIVE APERTURE f/6.3		WEIGHT		
REMARKS: Used on the following aircraft cameras: KC-1, KC-1A				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/6.3	FORMAT 9 in. x 9 in.	MANUFACTURER Fairchild Space & Defense Systems, El Segundo
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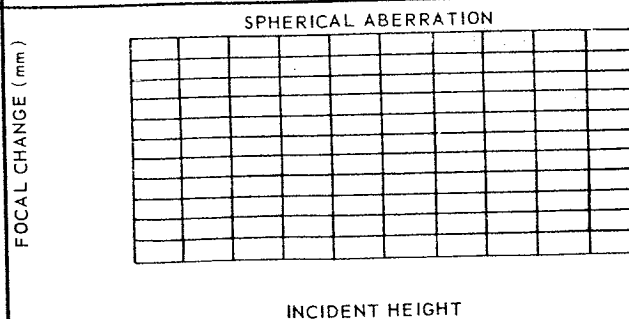
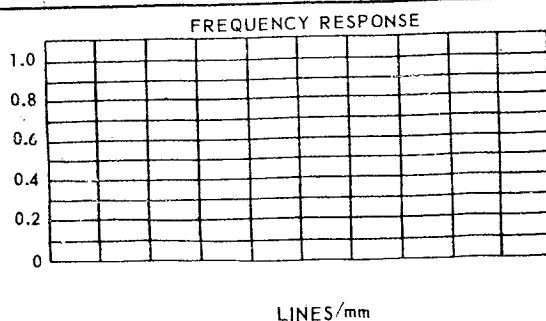
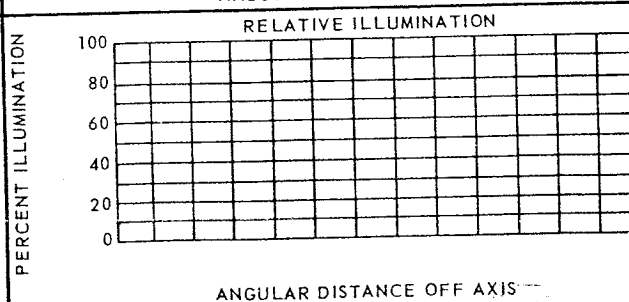
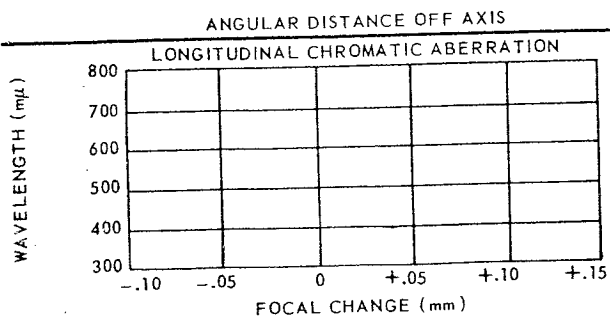
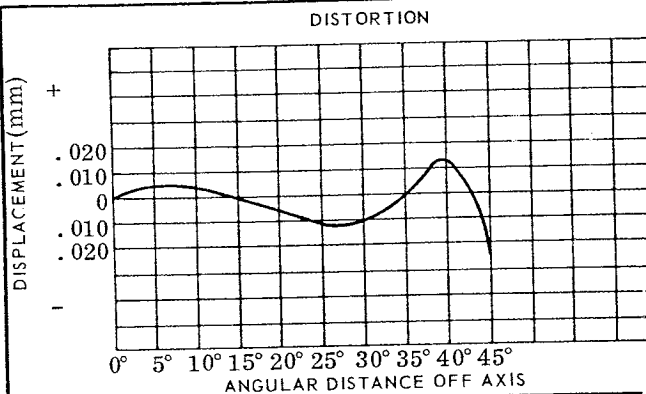
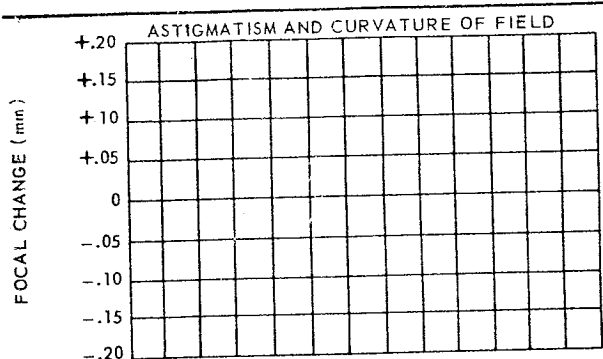
Photographic Resolving Power in Lines /mm

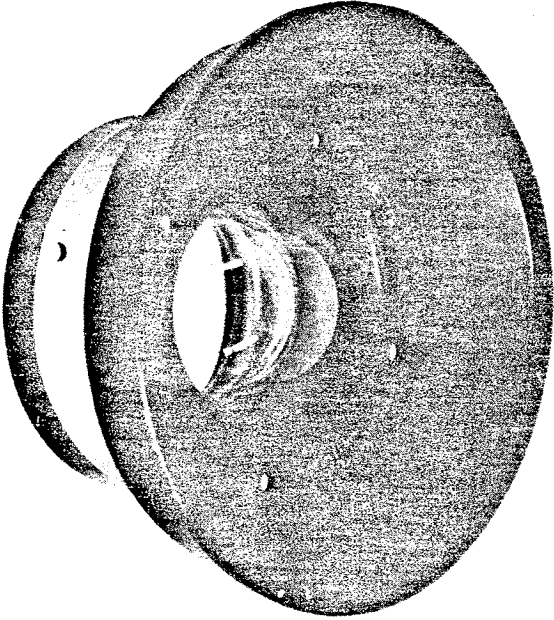
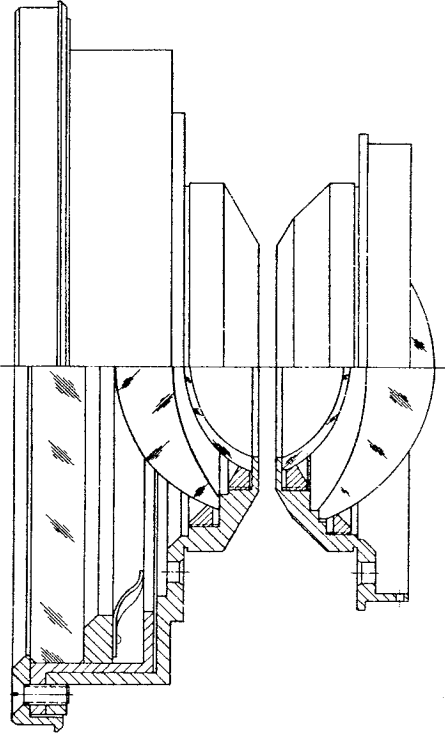
FIELD ANGLE (°)	0	10	20	30	35	40	45								
	FILM <u>Plus X</u> TARGET CONTRAST <u>High</u> FILTER <u>W-12</u>														
RADIAL	46	55	52	44	33	26	44								
TANGENTIAL	46	44	41	31	29	21	30								
	FILM _____ TARGET CONTRAST _____ FILTER _____														
RADIAL															
TANGENTIAL															
	FILM _____ TARGET CONTRAST _____ FILTER _____														
RADIAL															
TANGENTIAL															
	VISUAL _____ TARGET CONTRAST _____ FILTER _____														
RADIAL															
TANGENTIAL															

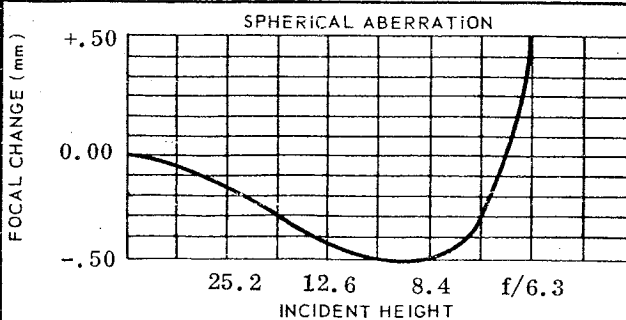
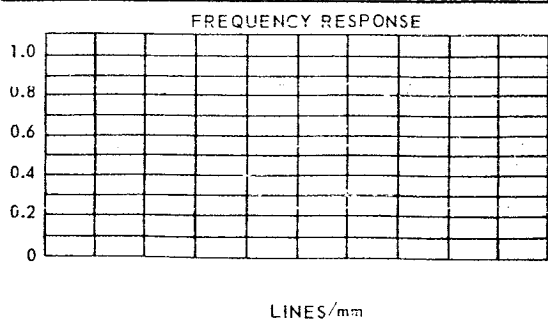
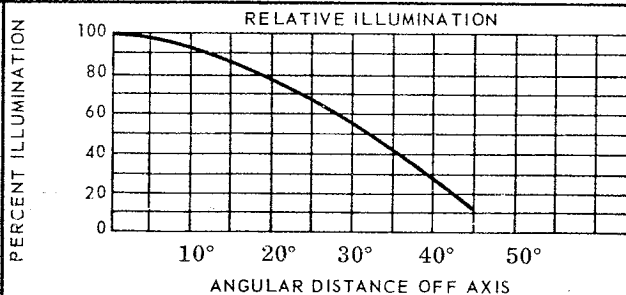
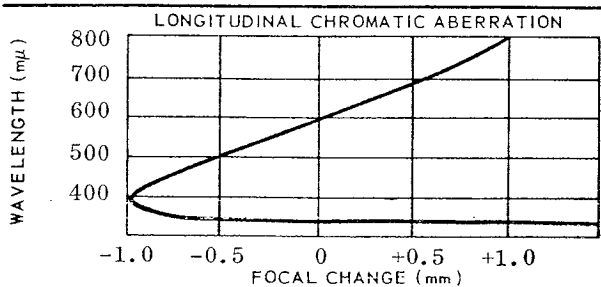
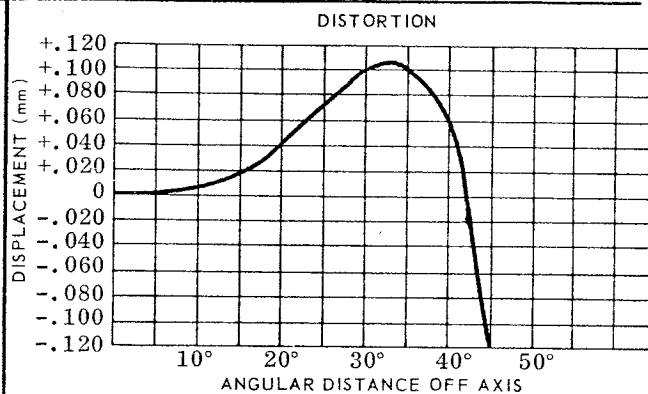
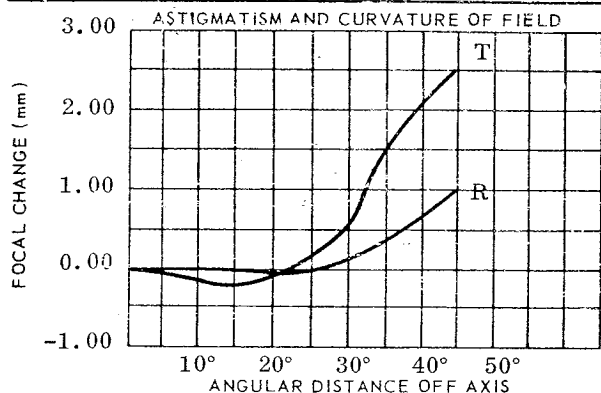
AWAR 36 L/mm

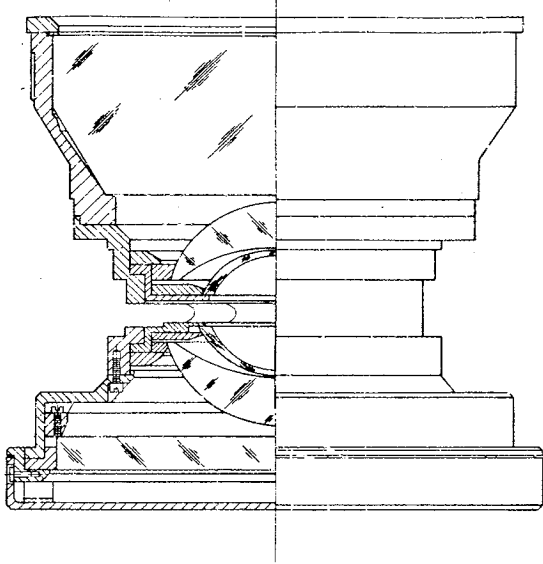
AWAR _____ L/mm

AWAR _____ L/mm



LENS DATA INFORMATION SHEET (Reference MIL-STD-150A for definition of terms and methods of measurement)				DATE 15 Sept. 1967
TYPE (MIL-STD-150A) Type II Aerial Mapping		NAME Metrogon		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/6.3	FORMAT 9 in. x 9 in.	MANUFACTURER Goerz Optical Co. Inc.	
STOCK NO.		SPECIFICATION NO.		STATUS Special Order
GENERAL DESCRIPTION  				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (154.5 mm)		TRANSMITTANCE		
BACK FOCAL DISTANCE 4.797 in.		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE 6.875 in.		DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE 5.279 in.		LENS CELL DIAMETER (<i>Maximum</i>) 4.84 in.		
SEMI-FIELD ANGLE 45°		OVERALL LENGTH 2.75 in.		
RELATIVE APERTURE f/6.3		WEIGHT		
REMARKS:				

[illegible][illegible]

LENS DATA INFORMATION SHEET				DATE																								
(Reference MIL-STD-150A for definition of terms and methods of measurement)																												
TYPE (MIL-STD-150A)		NAME																										
Type II Aerial Mapping		Planigon																										
FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER																									
6 in.	f/6.3	9 in. x 9 in.	Goerz Optical Co., Inc.																									
STOCK NO.		SPECIFICATION NO.	STATUS																									
			Special Order																									
GENERAL DESCRIPTION 																												
CHARACTERISTICS <table border="1"> <tbody> <tr> <td>EQUIVALENT FOCAL LENGTH</td> <td>TRANSMITTANCE</td> </tr> <tr> <td>6 in. (150.91 mm)</td> <td></td> </tr> <tr> <td>BACK FOCAL DISTANCE</td> <td>COLOR CORRECTION</td> </tr> <tr> <td>3.139 in.</td> <td></td> </tr> <tr> <td>FRONT VERTEX BACK FOCAL DISTANCE</td> <td>DISTORTION (Maximum)</td> </tr> <tr> <td>7.812 in.</td> <td></td> </tr> <tr> <td>FLANGE FOCAL DISTANCE</td> <td>LENS CELL DIAMETER (Maximum)</td> </tr> <tr> <td>5.345 in.</td> <td>5.81 in.</td> </tr> <tr> <td>SEMI-FIELD ANGLE</td> <td>OVERALL LENGTH</td> </tr> <tr> <td>45°</td> <td>5.10 in.</td> </tr> <tr> <td>RELATIVE APERTURE</td> <td>WEIGHT</td> </tr> <tr> <td>f/6.3</td> <td></td> </tr> </tbody> </table>					EQUIVALENT FOCAL LENGTH	TRANSMITTANCE	6 in. (150.91 mm)		BACK FOCAL DISTANCE	COLOR CORRECTION	3.139 in.		FRONT VERTEX BACK FOCAL DISTANCE	DISTORTION (Maximum)	7.812 in.		FLANGE FOCAL DISTANCE	LENS CELL DIAMETER (Maximum)	5.345 in.	5.81 in.	SEMI-FIELD ANGLE	OVERALL LENGTH	45°	5.10 in.	RELATIVE APERTURE	WEIGHT	f/6.3	
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RELATIVE APERTURE	WEIGHT																											
f/6.3																												
REMARKS:																												
Used on the following aircraft cameras: KC-1A, KC-1B, KC-2, T-12, FS-500																												

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
6 in.	f/6.3	9 in. x 9 in.	Goerz Optical Co., Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	7.5	15	22	30	35	40	45											
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FILM Super XX Aerographic TARGET CONTRAST High FILTER W-12

RADIAL	37	37	26	23	26	24	23	21											
TANGENTIAL	37	37	25	22	22	18	17	15											

AWAR
25 L/mm

FILM																			
TARGET CONTRAST																			
FILTER																			
RADIAL																			
TANGENTIAL																			

AWAR
L/mm

FILM																			
TARGET CONTRAST																			
FILTER																			
RADIAL																			
TANGENTIAL																			

AWAR
L/mm

VISUAL																			
TARGET CONTRAST																			
FILTER																			
RADIAL																			
TANGENTIAL																			

